# TG-K81

US Model Canadian Model AEP Model UK Model E Model



Photo: AEP, UK, US, E model

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## STEREO CASSETTE DECK

#### **SPECIFICATIONS**

#### GENERAL

Power Requirements:

AEP model

220V ac ~, 50/60 Hz

(240V ac  $\sim$  adjustable by authorized

Sony personnel)

UK model

240V ac ~, 50/60 Hz

(220V ac ~ adjustable by authorized

Sony personnel)

US, Canadian model

120V ac, 60 Hz

E model

110, 120, 220 or 240V ac ~,

50/60 Hz

#### SAFETY RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK NOT THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

#### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE À SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

## SIEREU UNOSLIIL PLUI

Power Consumption: 28W (AEP, UK, E model)

26W (US, Canadian model)

**Dimensions:** Approx. 430(w) x 130(h) x 290(d) mm

 $17(w) \times 5^{1}/_{8}(h) \times 11\%(d)$  inches (AEP, UK, US, E model)

Approx. 460(w) x 130(h) x 290(d) mm

 $18^{1}/_{8}$  (w) x  $5^{1}/_{8}$  (h) x  $11\frac{1}{2}$  (d) inches

(Canadian model)

including projecting parts and controls

Weight: Approx. 6.3kg, 13 lb 14 oz (AEP, UK,

US, E model)

Approx. 7kg, 15 lb 7 oz (Canadian model)

- Continued on page 2 -

Tape Transport Mechanism Type		TCM-100V2			
	Specific	ation	Test Equipment		
Forward Torque	28-43 (0.39-0.59		Sony torque meter CQ-102C		
Back Tension Torque	2.5-4.5 g·cm (0.04-0.06 oz·inch)		Sony torque meter CQ-102C		
Pinch Roller Pressure	● Take-up Side 280—380 g (10—13 oz) ● Supply Side 180—280 g (7—10 oz)		Spring scale or tension gauge		



Microphone inputs (phone jacks) · · · 2 TAPE RECORDER SECTION Inputs: sensitivity 0.25 mV (-70 dB) Recording System: 4-track 2-channel stereo for a low-impedance microphone Fast-forward and Line inputs (phono jacks) · · · · · · 2 Approx. 80 sec. (with C-60) Rewind Time: sensitivity 77.5 mV (-20 dB) DOLBY NR OFF Frequency Response: input impedance 50 k $\Omega$ AEP, UK, E model Variable line outputs (phono jacks) · 2 **Outputs:**  With TYPE IV cassette (Sony METALLIC) maximum output level 0.435 V (-5 dB) 20-20 000 Hz at load impedance 50 k $\Omega$ 3Q-18,000 Hz (±3 dB) with LINE OUT level control at "0" 30-13,000 Hz (±3 dB, 0 VU recording) variable range of output level 30-18,000 Hz (DIN) -5 to -29 dB (5 steps) • With TYPE III cassette (Sony Fe-Cr) suitable load impedance more than 20-20,000 Hz  $10k\Omega$ 30-18,000 Hz (±3 dB) Fixed line outputs (phono jacks) . . . 2 30-18,000 Hz (DIN) output level 0.435 V (-5 dB) • With TYPE II cassette (Sony CD-α) at load impedance 50  $k\Omega$ 20-19,000 Hz Suitable load impedance 30-17,000 Hz (±3 dB) more than 10  $k\Omega$ 30-17,000 Hz (DIN) Headphone output . . . . . . . . . . . . . . . . . 1 With TYPE I cassette (Sony BHF) variable range of output level 20-17,000 Hz -20 to -44 dB (5 steps) 30-15,000 Hz (±3 dB) at load impedance 8  $\Omega$ 30-15,000 Hz (DIN)  $0 \, dB = 0.775 \, V$ US, Canadian model With TYPE IV cassette (Sony METALLIC) 20-20,000 Hz 30-18,000 Hz (±3 dB) 30-13.000 Hz (±3 dB, 0 VU recording) LED PEAK PROGRAM METERS • With TYPE III cassette (Sony Fe-Cr) 20-20.000 Hz -40 dB to +8 dB Response Range: 30-18,000 Hz (±3 dB) 20 Hz -20,000 Hz ±1.5 dB Frequency Response: • With TYPE II cassette (Sony EHF) 1 millisecond Response Time: 20-19,000 Hz **Decay Time** 30-17,000 Hz (±3 dB) 750 milliseconds (from 0 dB to -20 dB): With TYPE I cassette (Sony HFX) Overshoot: None 20-17,000 Hz 30-15,000 Hz (±3 dB) 16 elements for each channel Indicator Elements: 0.04% WRMS (NAB) Wow and Flutter: (AEP, UK, E model) ±0.12% (DIN) 0.04% WRMS (US, Canadian model) S/N Ratio: DOLBY NR OFF AEP, UK, E model • With TYPE III cassette (Sony Fe-Cr) 60 dB at peak level (NAB) 59 dB (DIN, 1975, rev.) With TYPE II cassette (Sony CD-α) 58 dB at peak level (NAB) US, Canadian model • With TYPE III cassette (Sony Fe-Cr) 60 dB at peak level • With TYPE II cassette (Sony EHF)

58 dB at peak level

0.8% (with Sony Fe-Cr cassette)

Improved by 5 dB at 1 kHz, 10 dB

DOLBY NR ON

above 5 kHz

105 kHz

**Total Harmonic Distortion:** 

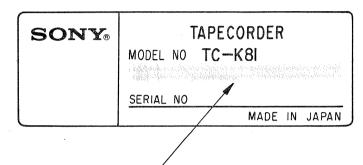
Bias Frequency:

#### SERVICING NOTE

When the top cover is removed, the internal photo transistor may pick up stray light and shut the set off.

#### MODEL IDENTIFICATION

- Specification Label -



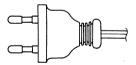
US, Canadian Model: AC 120V 60Hz 26W

AEP model: AC 220V $\sim$  50/60Hz 28W UK model: AC 240V $\sim$  50/60Hz 28W

E model: AC 110, 120, 220, 240V~ 50/60Hz 28W

- Power Cord -

E model: euro-plug 1-534-817-XX E model: parallel-blade plug 1-551-473-31





#### Handling Precautions for MOS ICs

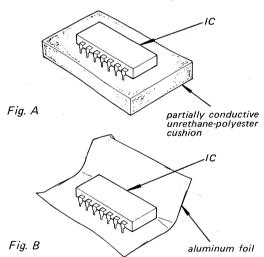
Generally, the insulation resistance of the oxide layer in MOS IC structures is very high, and the oxide layer is very thin. Because of this, it is possible that the static voltages usually present on clothes and the human body will be enough to generate a potential difference across the insulator, high enough to cause a breakdown of the insulating layer.

The following precautions should be taken while handling these ICs.

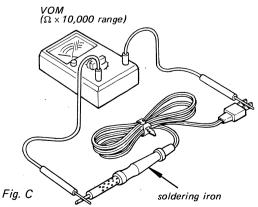
(Particular care should be taken under conditions of low humidity.)

#### Precautions in Replacing MOS ICs

- 1. Store new ICs by inserting them into a urethanepolyester cushion (which is somewhat conductive), or wrapping it in aluminum foil, so that all the pins are at the same potential.
  - (The ICs should be stored in that manner until mounted on the circuit board.)



 Check the soldering iron for possible power-line leakage current. Make sure that there is no leakage path by connecting an ohmmeter to the tip of the soldering iron and the plug as shown in Fig. C. If there is a leakage path, use some other soldering iron.



- 3. Equalize any potential difference between the clothes, the tools in use, the work bench, the set being worked on, and the packaged IC by touching them all in succession with the hands or a conductive wire or tool.
- 4. The following are effective methods for handling ICs that remove the potential difference across the oxide layer.
  - Use a paper clip modified by soldering in a wire braid insert.

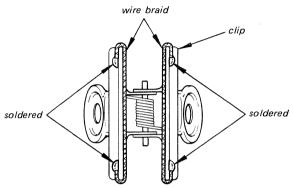
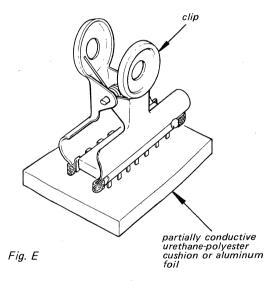
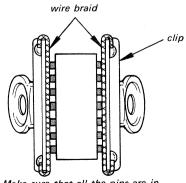


Fig. D Make sure that there is no solder on the inside.

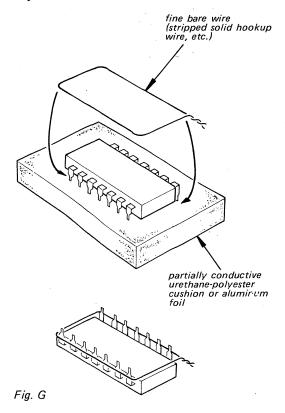




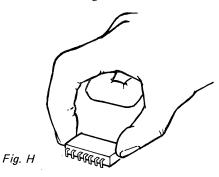
Make sure that all the pins are in contact with the wire braid (all the pins will then be at the same potential.).

\_ 4 \_

• Take a short length of fine bare wire and wind it around the IC so that it shorts all the pins of the IC, while it is still in the urethane-polyester cushion or aluminum foil. This ensures that all the pins are at the same potential.



 When it is necessary to handle the IC with the fingers, do not touch any pin, and hold the IC at the ends of its plastic-package case as shown in Fig. H.



#### 5. Method of Mounting

Insert the IC while holding it with the modified clip, and solder all the pins with the clip still shorting the pins. (Similarly, solder all the pins while the bare shorting wire is still wound around them.). Remove the clip or the bare shorting wire only after all the pins have been soldered.

#### Precaution while Checking C-MOS ICs

The C-MOS ICs (Complementary MOS) are MOS ICs that have their output sections made up of N-channel and P-channel push-pull stages to increase their speed of operation. If the output terminal of these ICs comes into contact with B+ or B- voltage, then the FET which is ON at that time will either become shorted or open.

This is valid for all the output sections that are connected together by the interconnections. Even the circuits that are physically separated (and not on the same board) can be destroyed simultaneously.

#### Example:

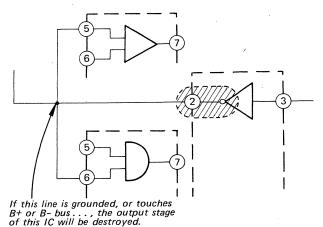
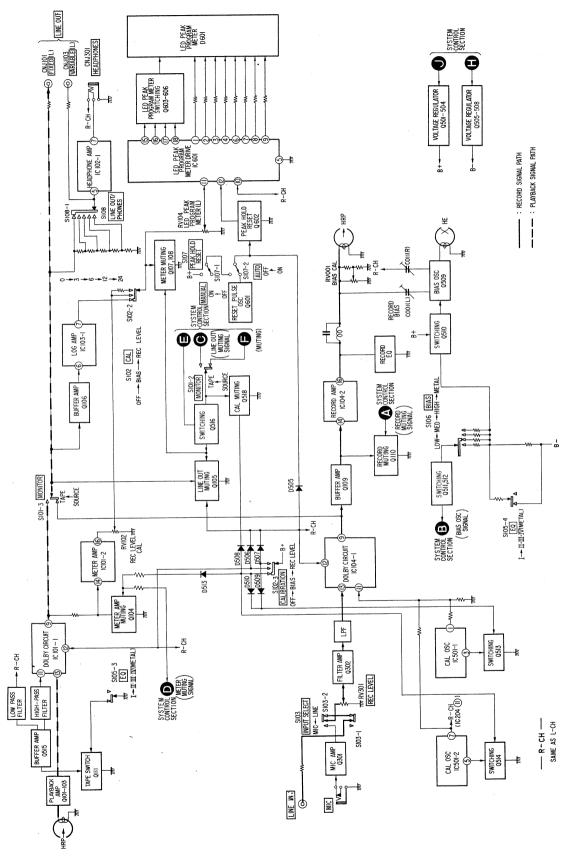


Fig. 1

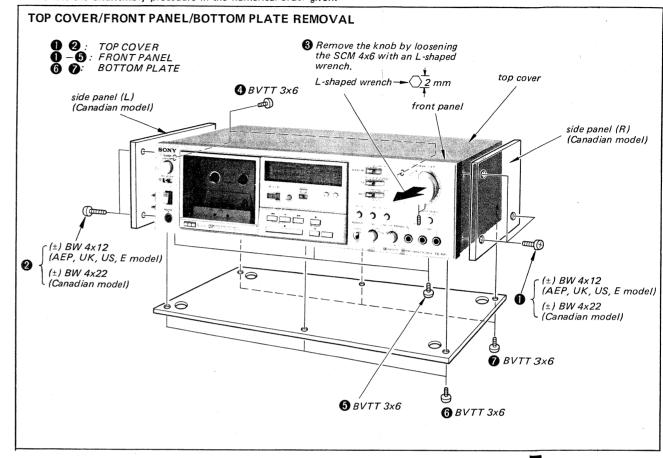
# SECTION 1 OUTLINE

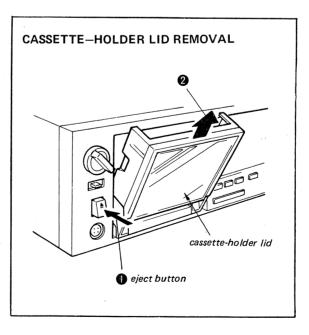
#### 1-1. BLOCK DIAGRAM - Audio Amp Section -

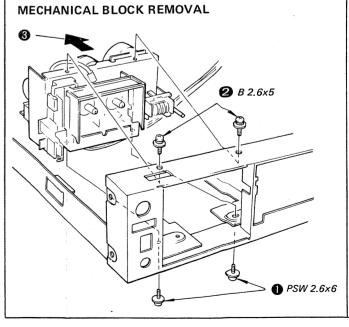


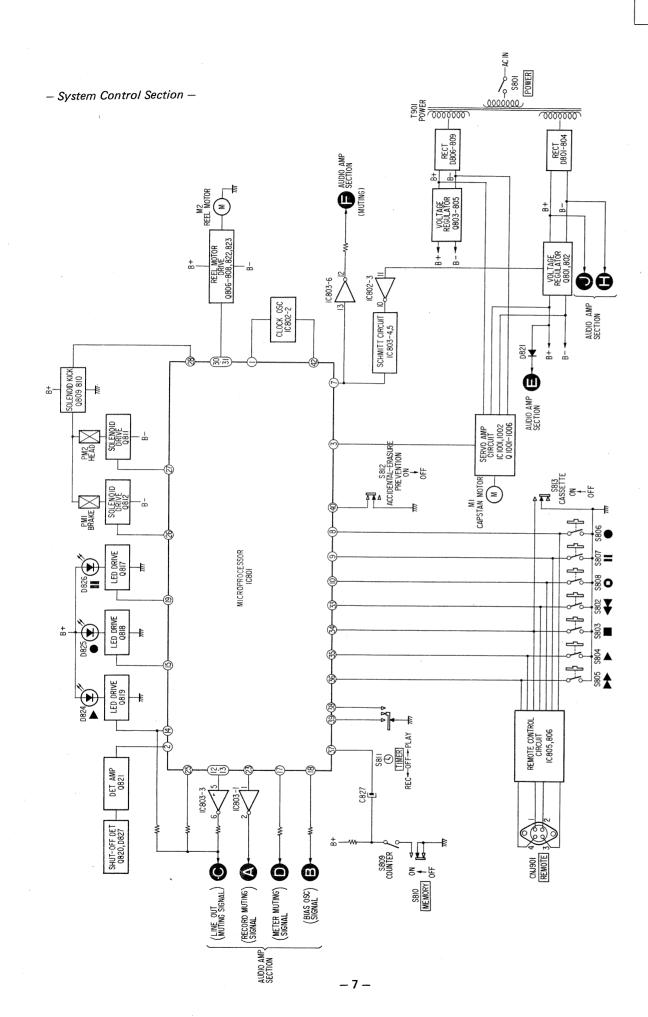
## SECTION 2 DISASSEMBLY

• Follow the disassembly procedure in the numerical order given.









#### **SECTION 3 ADJUSTMENTS**

#### 3-1. MECHANICAL ADJUSTMENTS

#### **PRECAUTION**

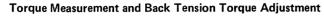
1. Clean the following parts with a denaturedalcohol-moistened swab:

> record/playback head erase head

pinch rollers rubber belts

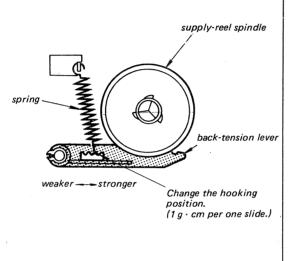
capstans idlers

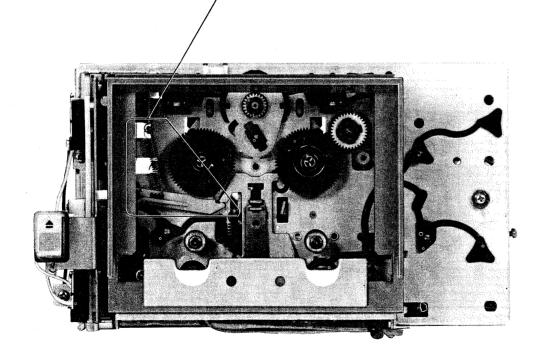
- 2. Demagnetize the record/playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

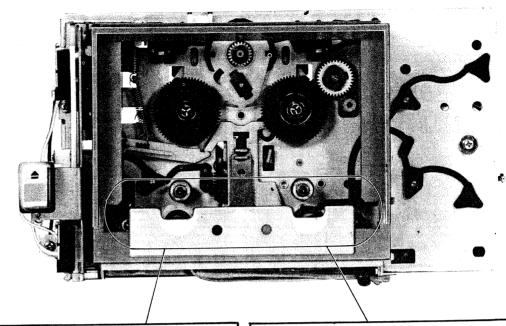


.	Torque	Torque meter	Meter reading		
	Forward	CQ-102C	28-43 g · cm (0.39-0.59 oz · inch)		
	Back tension	CQ-102C	$2.5-4.5 \text{ g} \cdot \text{cm}$ (0.04-0.06 oz · inch)		

2. If the specified back-tension torque is not obtained, change the hooking position.



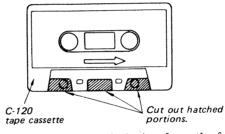




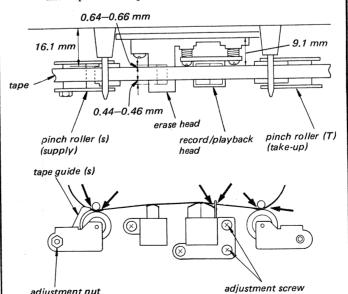
#### Head Height Adjustment

adjustment nut

1. Prepare an adjustment cassette as shown below.



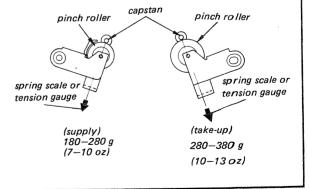
2. Inplayback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at portions shown by arrows.

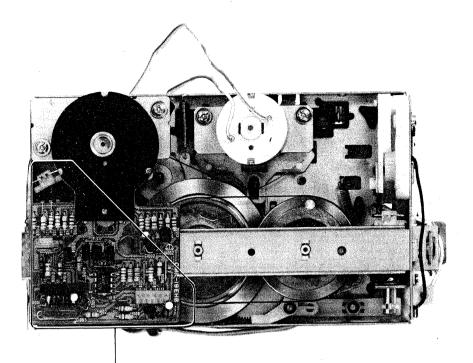


#### Pinch Roller Pressure Measurement

- Forward Mode -

2. Slowly pull the pinch roller and read the spring scale or the tension gauge just when the pinch roller stops rotating.





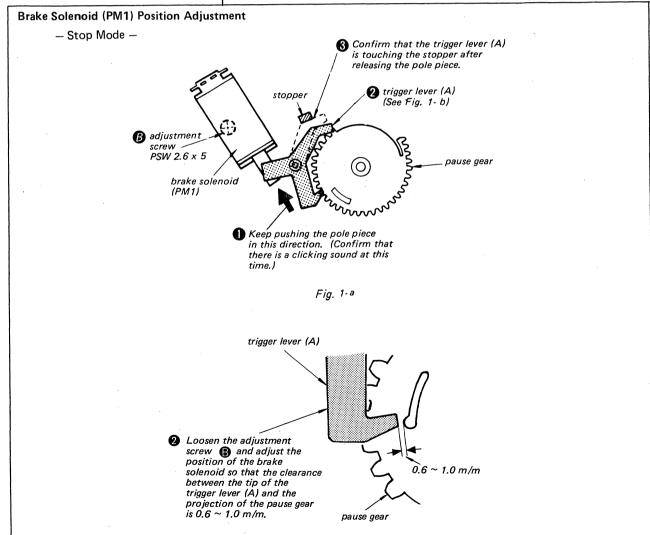
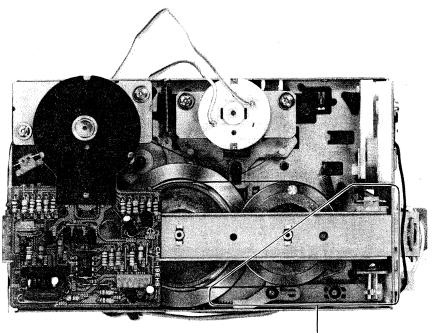
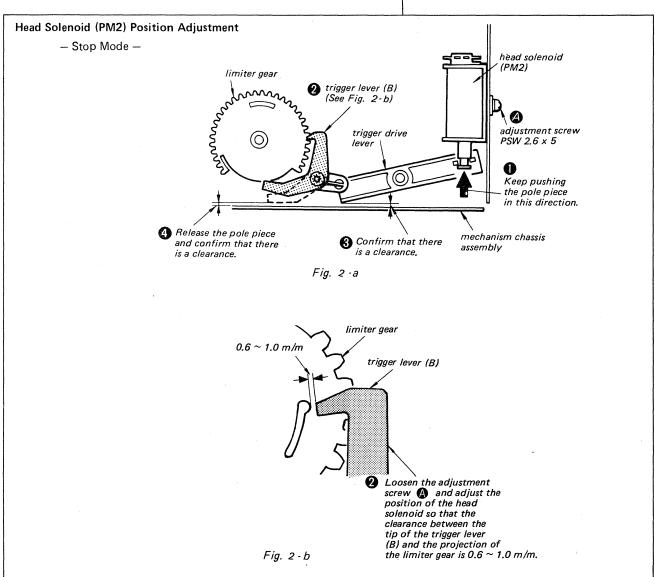


Fig. 1-b





#### 3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

• Set the BIAS and EQ switches according to the tape as follows.

Tape	BIAS switch	EQ switch
CS-10	MED	TYPE I
CS-25	HIGH .	TYPE II
CS-30	MED	ТҮРЕ Ш
CS-40	METAL	TYPE IV

• Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch:

OFF

EO switch:

TYPE I

BIAS switch: MONITOR:

MED

CALIBRATION:

**TAPE** OFF

INPUT SELECT:

LINE

#### • Standard Record:

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

#### Standard Input Level

·	MIC	LINE IN		
source impedance	300 Ω	10 kΩ		
input level	0.77 mV (-60 dB)	0.25 V (-10 dB)		

#### Standard Output Level

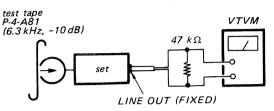
	LINE OUT (FIXED)	HEAD- PHONES	
load impedance	47 kΩ	Ω 8	
output level	0.44 V (-5 dB)	77 mV* (-20 dB)	

\* with HEADPHONES/LINE OUT level control at "10".

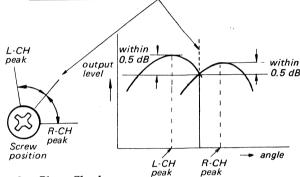
#### Record/playback Head Azimuth Adjustment

#### Procedure:

1. Mode: playback

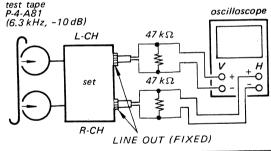


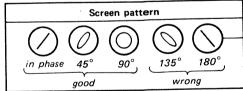
2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 0.5 dB.



3. Phase Check







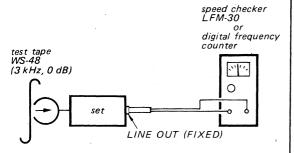
#### Adjustment Location:



#### Tape Speed Adjustment

#### Procedure:

Mode: playback



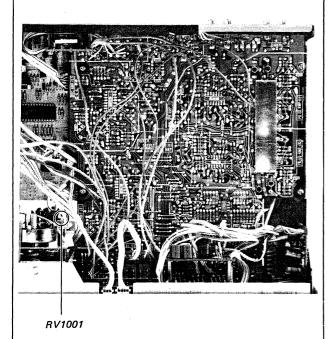
#### Specification:

Speed checker	Digital frequency counter
-0.7 to +0.7%	2,980 – 3,020 Hz

Frequency difference between the beginning and the end of the tape should be within 0.7% (20 Hz).

#### Adjustment Location:

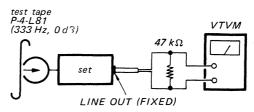
- servo amp board -



#### Playback Level Adjustment

#### Procedure:

Mode: playback



#### Specification:

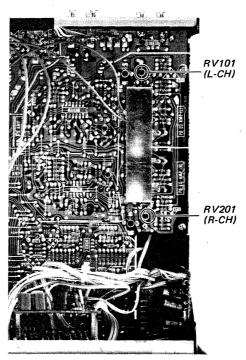
LINE OUT level: 0.52 - 0.59 V (-3.5 to -2.5 dB)

Level difference between channels: less than 0.5 dB

Check that LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

#### Adjustment Location:

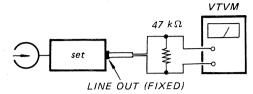
- record/playback board -



#### Bias Trap Adjustment

#### Procedure:

Mode: record (no-cassette loaded)

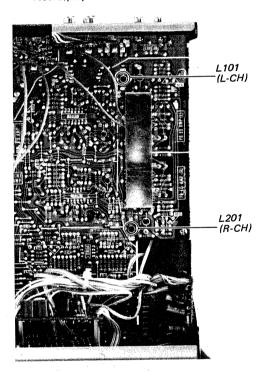


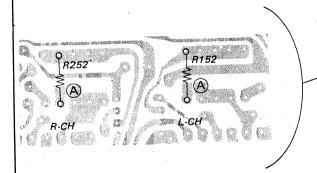
#### Specification:

LINE OUT level: less than 2.5 mV (less than -50 dB)

#### Adjustment Location:

- record/playback board -





#### LED Peak Program Meter Calibration

#### - Setting:

REC LEVEL control: standard record

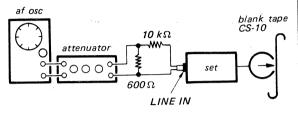
(See page 13.)

MONITOR switch:

SOURCE

#### Procedure:

Mode: record



Slowly turn RV104 (L-CH) and RV204 (R-CH) and stop them just when the segments (□□□ -2 dB) go out.

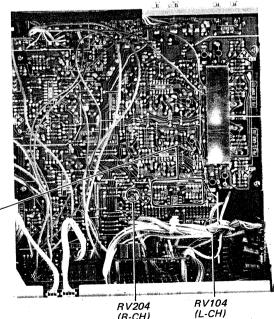
#### Specification:

Γ	LINE IN level	Indication
	0.85 - 1.1 V (+1 to +3 dB)	The first segment from the right lights.
	2.7 - 5.5 mV (-49 to -43 dB)	The second segment from the left goes out.

If the second segment from the left does not go out when the 2.7 mV (-49 db) LINE IN signal is applied, solder (A).

#### Adjustment Location:

— record/playback board —



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#### Record Bias Adjustment

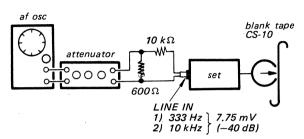
#### Setting:

REC LEVEL control: standard record

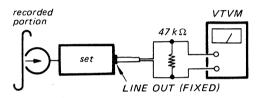
(See page 13.)

#### Procedure:

1. Mode: record



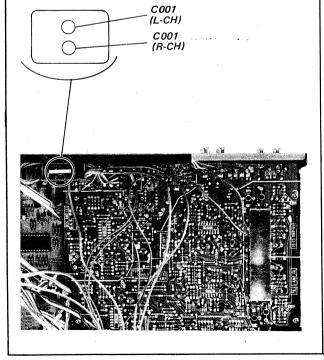
#### 2. Mode: playback



Adjust C001 (L-CH) and C011 (R-CH) so that the 333 Hz and the 10 kHz signal levels become the same.

#### Adjustment Location:

- bias trimmer board -

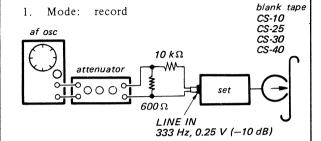


#### Record Level Adjustment

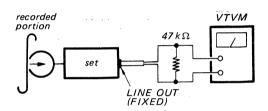
#### Setting:

REC LEVEL control: standard record (See page 13.)

#### Procedure:



#### 2. Mode: playback



#### Specification:

Tape	LINE OUT level		
CS-10	0.41 - 0.46 V (-5.5 to -4.5 dB)		
CS-25 CS-30 CS-40	0.37 - 0.46 V (-6.5 to -4.5 dB)		

#### Adjustment Location:

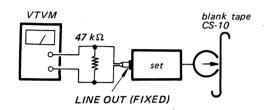
RV106 (IL-CH)

#### REC LEVEL CAL (calibration) Adjustment

Setting:

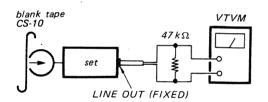
CALIBRATION switch: REC LEVEL

- 1. Unsolder the hatched portion in Fig. 3 before starting the adjustment.
- 2. Mode: record
  MONITOR switch: SOURCE



Confirm that the LINE OUT level is 43-45 mV (-25.2 to -24.8 dB).

3. Mode: record and simultaneous playback MONITOR switch: TAPE



Confirm that the LINE OUT level is 42-47 mV (-25.5 to -24.5 dB).

- 4. Slowly turn RV102 (L-CH) and RV202 (R-CH) and stop them just when the second RED segments go out.
- 5. Confirm that the LINE OUT levels vary between 29-66 mV (-28.5 to -21.5 dB) according to the REC LEVEL CAL controls turning.

#### **Adjustment Location**

- record/playback board -

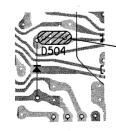


Fig. 3

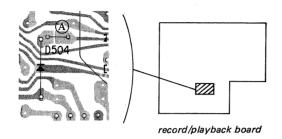
#### **BIAS CAL (calibration) Measurement**

Setting:

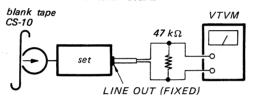
CALIBRATION switch: BIAS

rocedure:

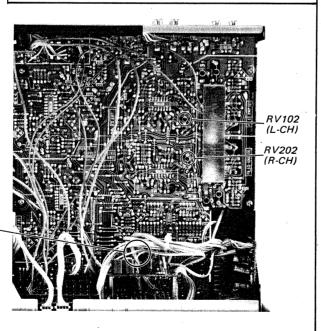
1. Unsolder part (A) before starting the adjustment.



2. Mode: record and simultaneous playback MONITOR switch: TAPE



- 3. Confirm that the LINE OUT level is 26-37 mV (-29.5 to -27.5 dB).
- Confirm that the LED peak program meter indicates approx. 0 dB, and the LINE OUT levels vary between 18-42mV (-32.5 to -25.5 dB) according to the REC LEVEL CAL controls turning.



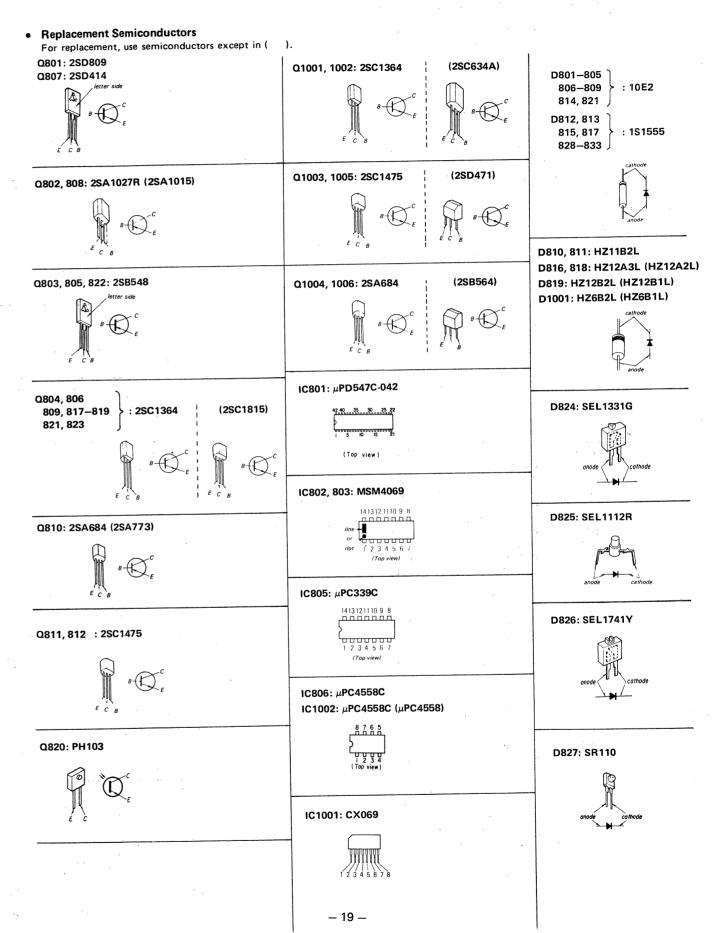
MEMO)	
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## -K81 TC-K81

mV

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# SECTION 4 DIAGRAMS



#### 4-1. SCHEMATIC DIAGRAM - System Control Section -

Refer to page 19 for replacement semiconductors and page 25 for voltages and waveforms at the terminals of IC801.

#### Note:

- All capacitors are in μF unless otherwise noted. p : μμF 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/4W unless otherwise noted.  $k\Omega$  : 1000 $\Omega$ ,  $M\Omega$  : 1000 $k\Omega$
- fusible resistor
- : nonflammable resistor.
- 1% indicates component tolerance.
- : B+ bus.
- ---: B- bus.
- : panel designation.
- : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- $\bullet$  Readings are taken with a VOM (20  $k\Omega/V).$

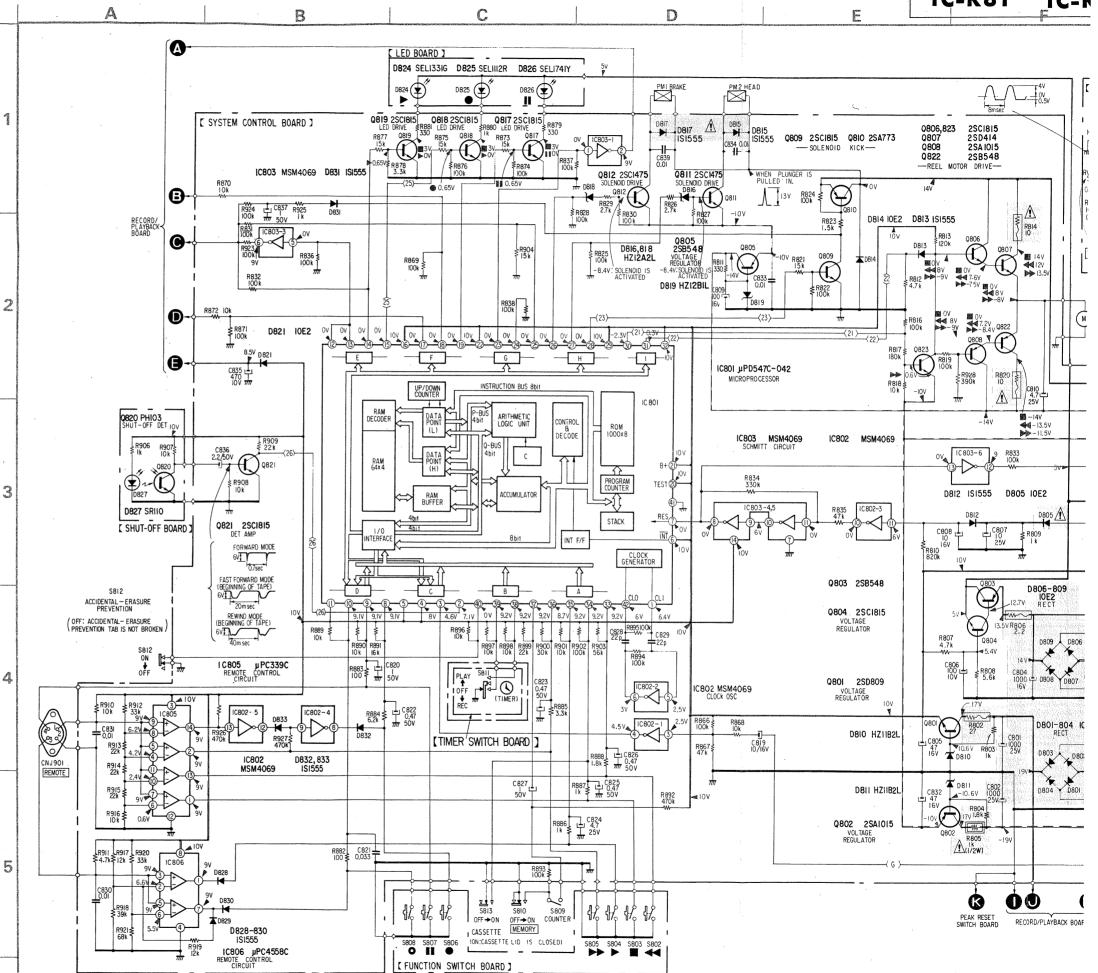
no mark: STOP

- : FORWARD
- ▶ : FAST FORWARD
- REWIND
- : RECORD
- : REC MUTE
- : PAUSE
- : STOP
- Voltage variations may be noted due to normal production tolerances.
- Switch

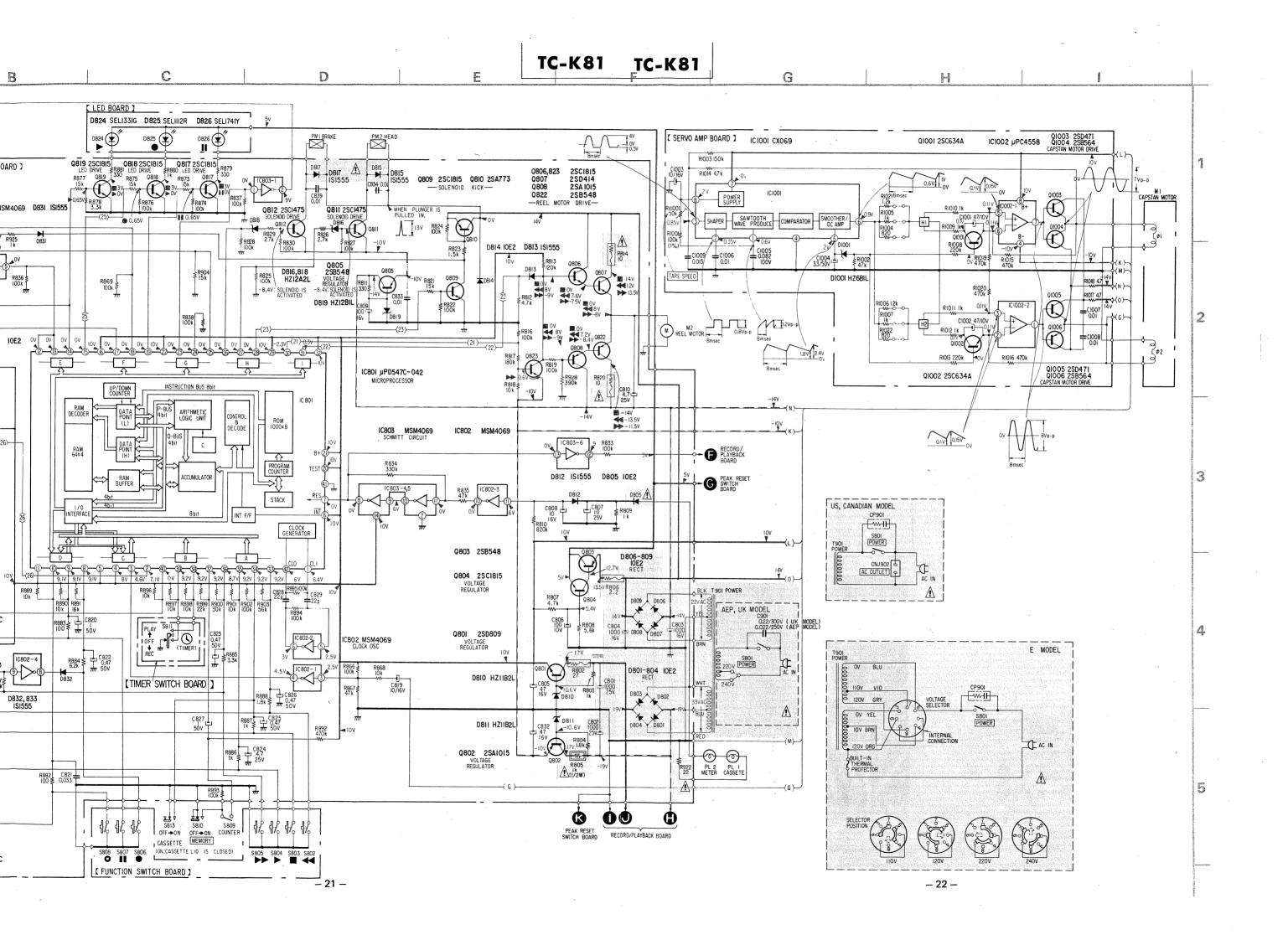
Ref. No.	Switch	Position
S801	POWER	OFF
S802	REWIND	OFF
S803	STOP	OFF
S804	FORWARD	OFF
S805	FAST FORWARD	OFF
S806	RECORD	OFF
S807	PAUSE	OFF
S808	REC MUTE	OFF
S812	ACCIDENTAL-	ON
	ERASURE	
	PREVENTION	
S813	CASSETTE	OFF

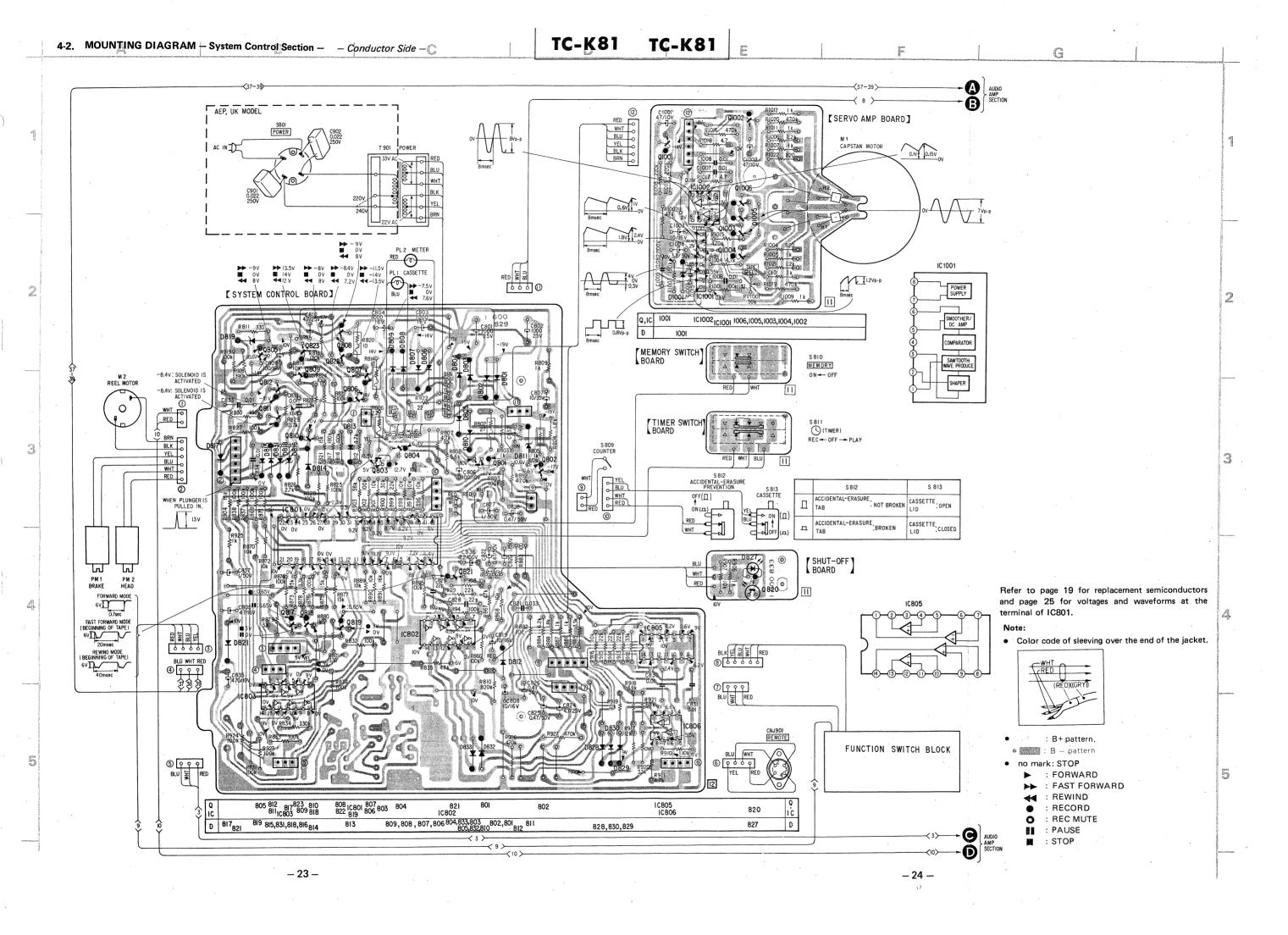
Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

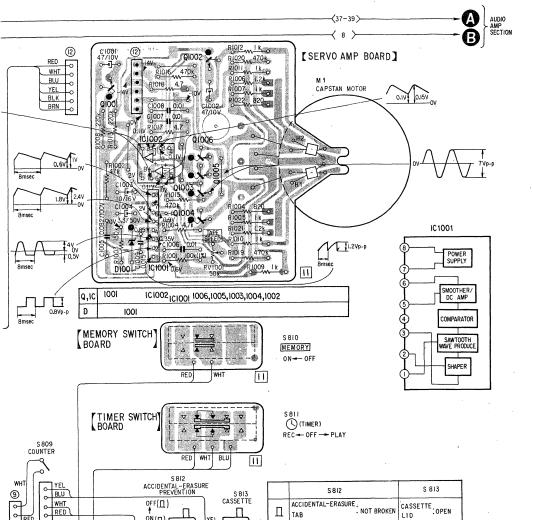
Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



**–** 21 –







ACCIDENTAL-ERASURE: NOT BROKEN CASSETTE: OPEN LID

ON (LI)

ACCIDENTAL-ERASURE: BROKEN CASSETTE: CLOSED

RED

ON (LI)

SEPTEMBROKEN CASSETTE: CLOSED

SHUT-OFF

SHUT-OFF BOARD

SHUT-OFF BOARD

III

IC805

III

IC805

III

IC805

III

IC805

III

IC805

IC806

IC806

IC806

IC806

IC807

IC806

IC807

IC806

IC807

I

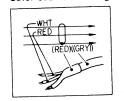
827

828,830,829

Refer to page 19 for replacement semiconductors and page 25 for voltages and waveforms at the terminal of IC801.

#### Note:

Color code of sleeving over the end of the jacket.



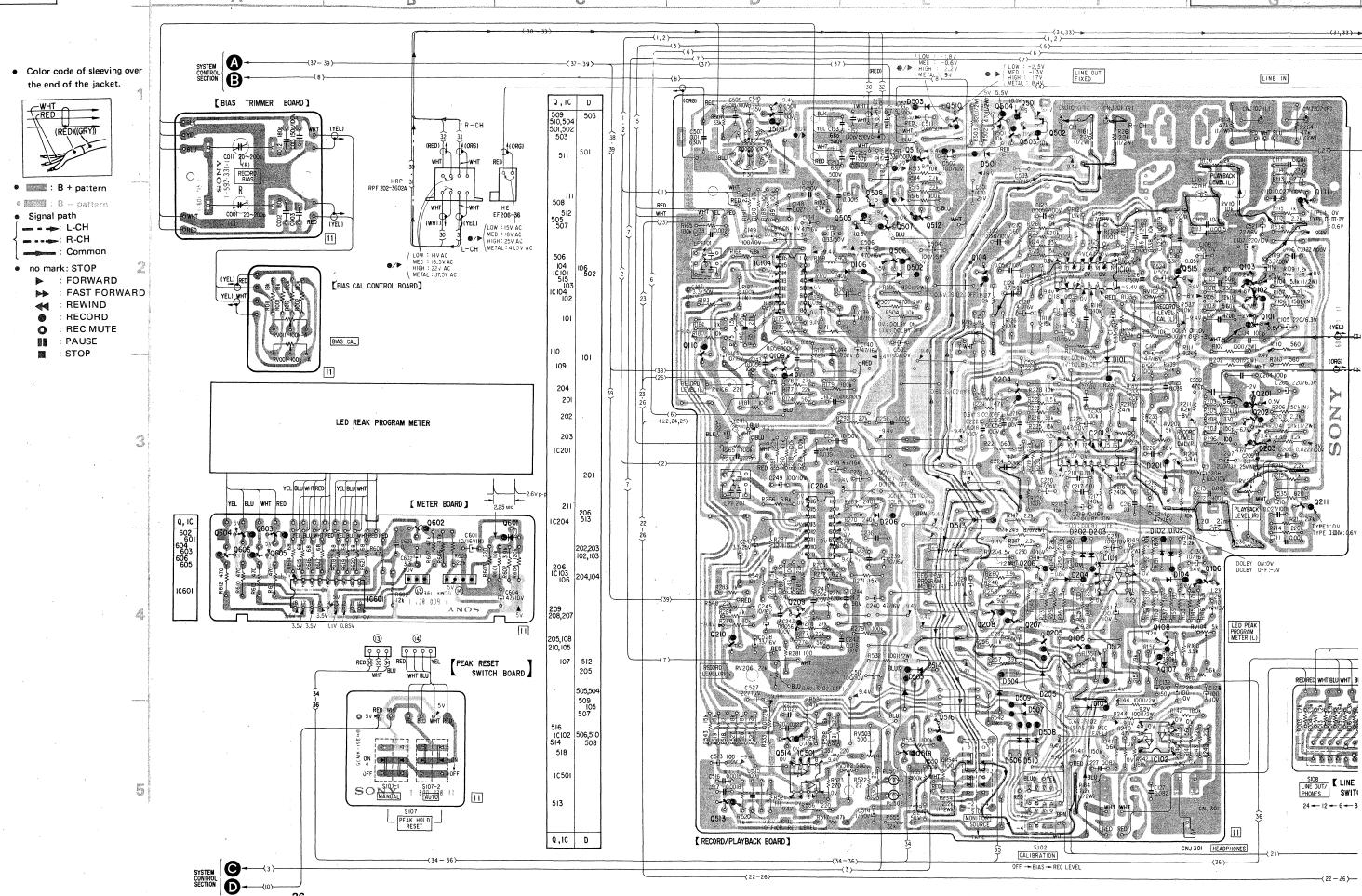
- : B+ pattern.
- B pattern
- no mark: STOP
  - ► : FORWARD ► : FAST FORWARD
  - : REWIND
  - : RECORD
  - : REC MUTE
  - : PAUSE
  - : STOP

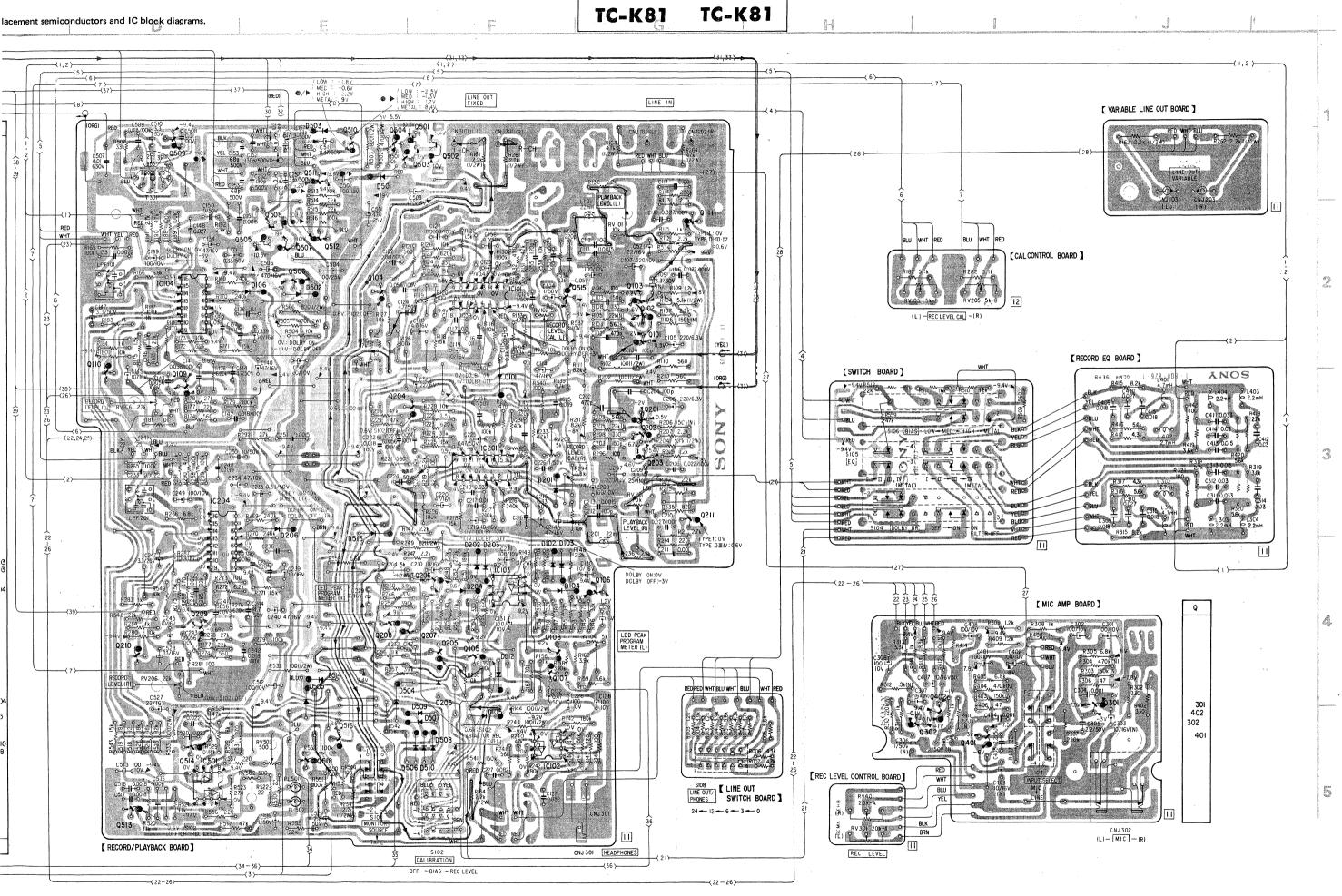
**- 24 -**

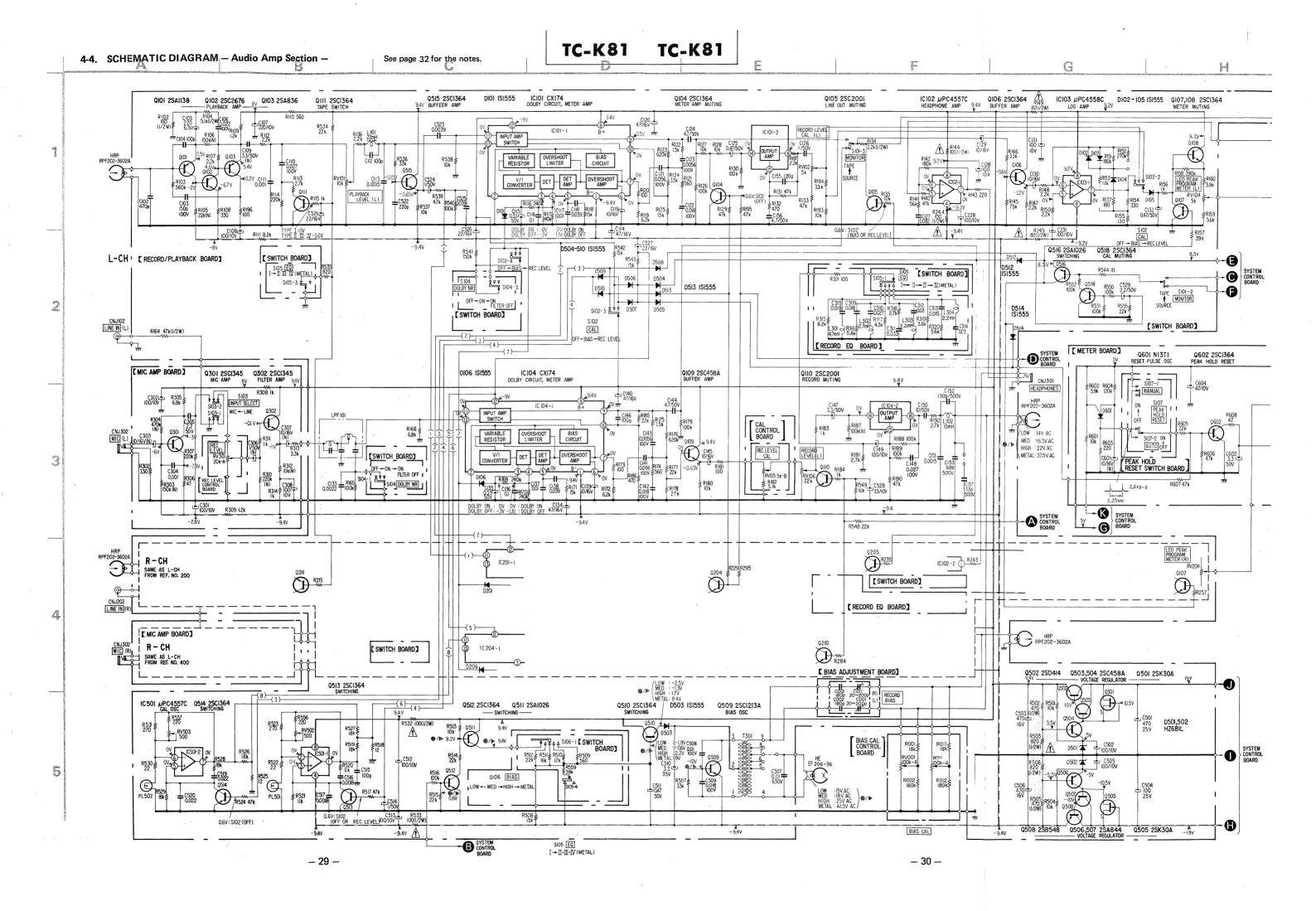
#### Voltages and Waveforms at the Terminals of IC801.

Terminal No.	Waveform or Voltage	Terminal No.	Waveform or Voltage	Terminal No.	Waveform or Voltage
	10V <sub>P-P</sub>		Forward Mode	29	10 Vdc
(1)	4 μsec	14)			Fast Forward Mode
	• Forward Mode 10V <sub>P-P</sub>	(15)	Record Mode	30	-10V -22V 0.3 sec.
	• Fast Forward Mode	16	10 Vdc		Fast Forward button is pushed.  Rewind Mode
2	20 msec  • When pause botton is pushed in forward mode: 10 Vdc  • Tape End: 10 Vdc	17)	Forward Mode  10V  0.5 sec  Forward button is pushed.	(31)	0.3 sec Rewind button is pushed.
	$\sim$		Record/Forward Mode	(32)	10 V dc
3	8 Msec	18)		33	10V  OV  Rewind button is pushed.
4 to 6	10 Vdc	19	Pause Mode	34)	10V Stop button is pushed or the cassette lid is open.
7	2.5 sec	20 to 22	10 Vdc 10 V	<b>35</b>	10V  Forward button is pushed.
·	10Vp.P 0.5 sec S17 (POWER): ON-OFF	23)	Record/Forward button is pushed. Record Muting or Pause button is pushed.	36	10V
		24)	0 Vdc		Fast Forward button is pushed.  ● S810 (MEMORY): ON
8	Record button is pushed.	25	Forward or Record Mode 10V 3.3V 0V	37)	Tape counter is at 999 in rewind mode.
9	Power button is pushed		0.6 sec   Forward or Record	38	• S811 (timer): PLAY
	Pause button is pushed.		button is pushed.  Fast Forward or Rewind Mode or Record/Forward/Pause Mode	39	• S811 (timer): REC
10	Record button is pushed.	26	——————————————————————————————————————	40	When the accidental erasure prevention tab is broken: 0 V When the accidental
11)	10 Vdc	27)			erasure prevention tab is not broken: 10 V  0 Vdc
	Fast Forward or Rewind Mode		0.35 sec. 10V	(41)	U Vac
12 13		28	Forward or Fast Forward or Rewind button is pushed.	42	4νρ.ρ 4 μsec

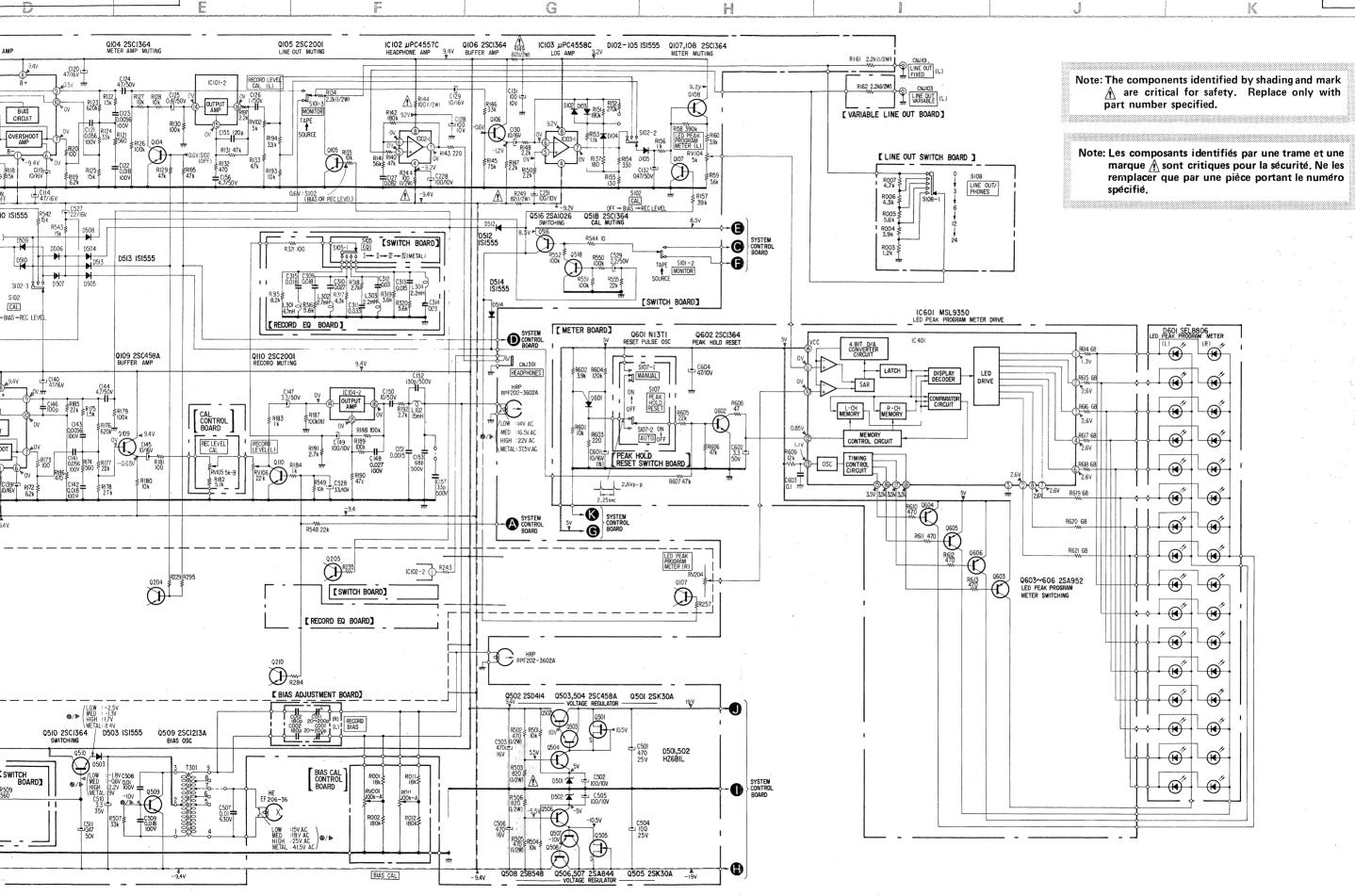
**– 26 –** 







**– 31** –



- 30 -

TC-K81

-K81

#### - Audio Amp Section -

#### Note:

- Components for right channel have same values as for left channel. Reference numbers are coded from 200 and 400.
- All capacitors are in  $\mu F$  unless otherwise noted, pF =  $\mu \mu F$  50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted.  $k\Omega$  : 1000  $\Omega$  ,  $M\Omega$  = 1000  $k\Omega$

• fusible resistor.

• (N) : low-noise.

: B+ bus.

---: B- bus.

• \_\_\_\_\_: panel designation.

adjustment for repair.

- Voltages are dc with respect to ground unless otherwise noted.
- $\bullet$  Readings are taken under no signal conditions with a VOM (20  $k\Omega/V).$

no mark: STOP

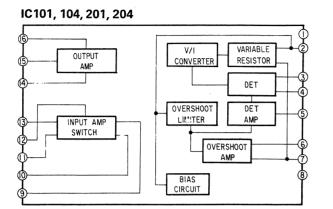
► : FORWARD

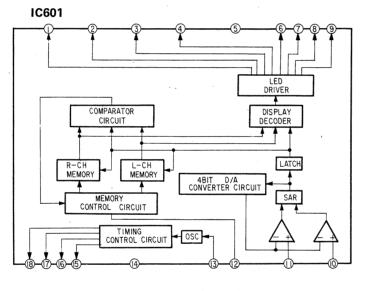
▶ : FAST FORWARD

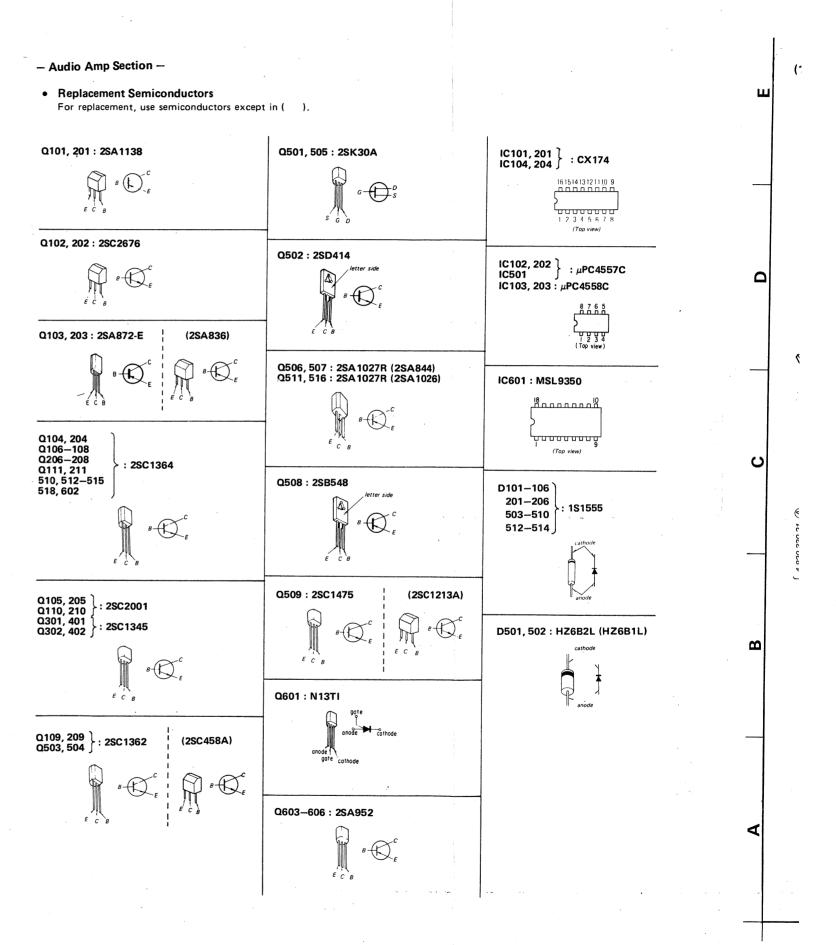
: PAUSE : STOP

- AC voltage readings in the bias oscillator circuit are taken with a VTVM.
- Voltage variations may be noted due to normal production tolerances.
- Switch

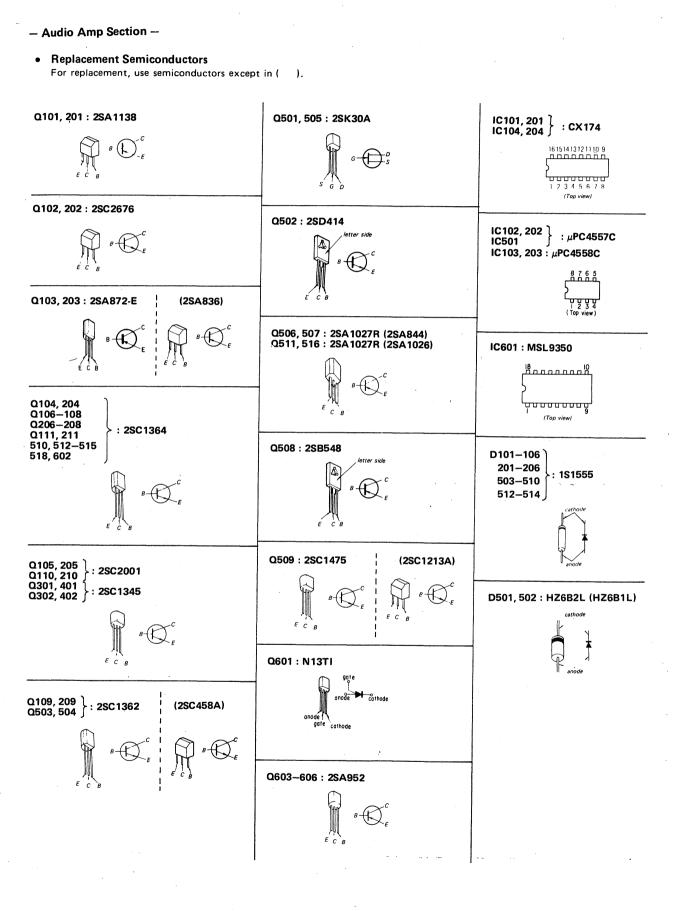
Ref. No.	Switch	Position
S101-1 to 101-4	MONITOR	TAPE
S102-1 to 101-4	CALIBRATION	OFF
S103-1 to 103-4	INPUT SELECT	LINE
S104-1 to 104-3	DOLBY NR	OFF
S105-1 to 105-4	EQ	i
S106-1, 2	BIAS	MED
S107-1	MANUAL	OFF
S107-2	AUTO	ON

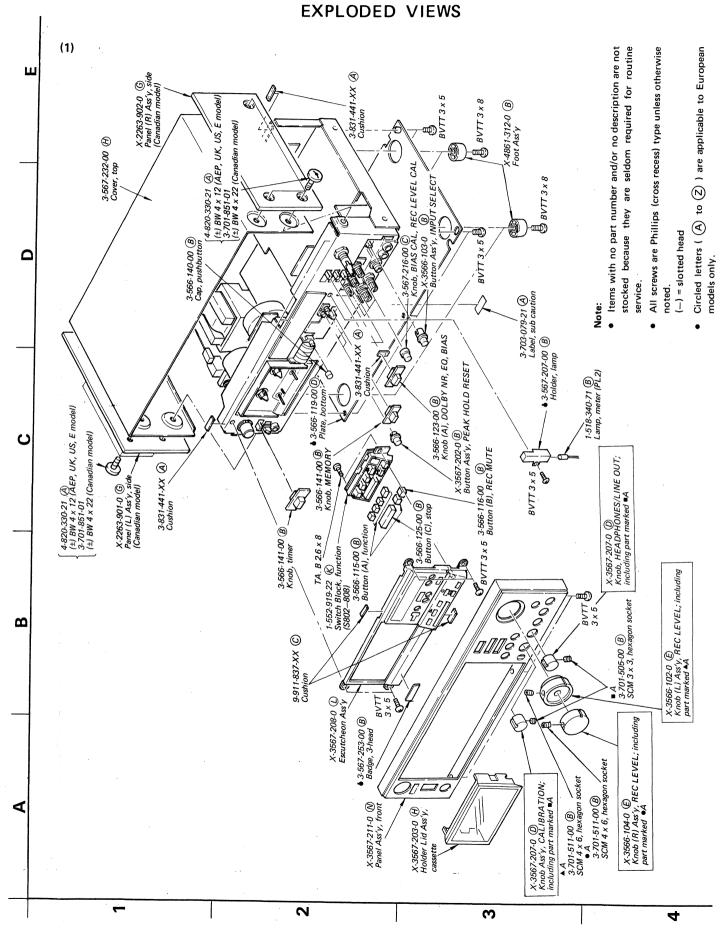




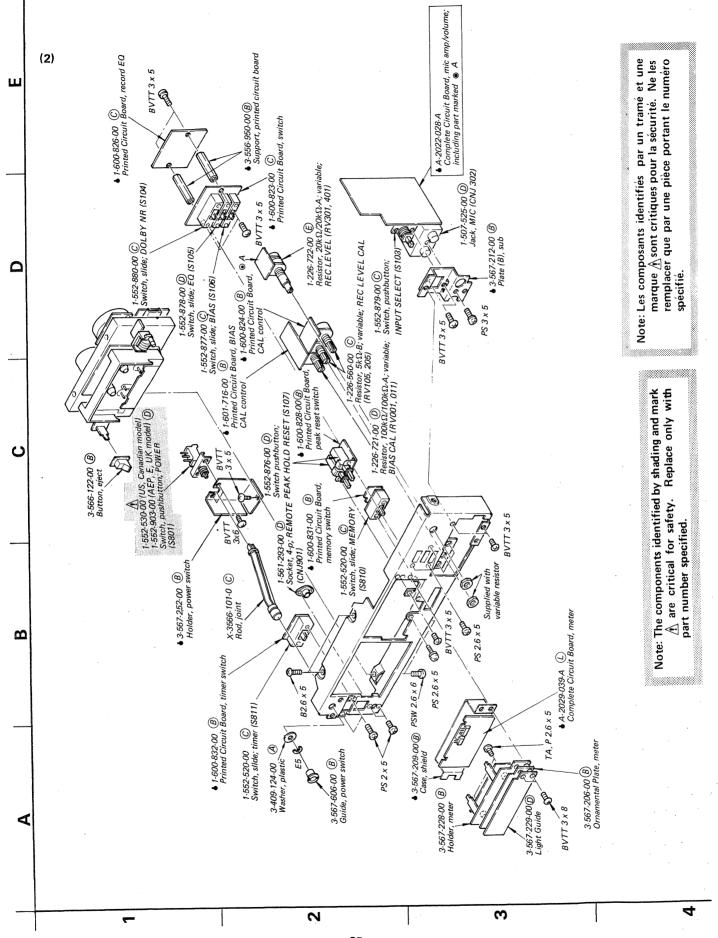


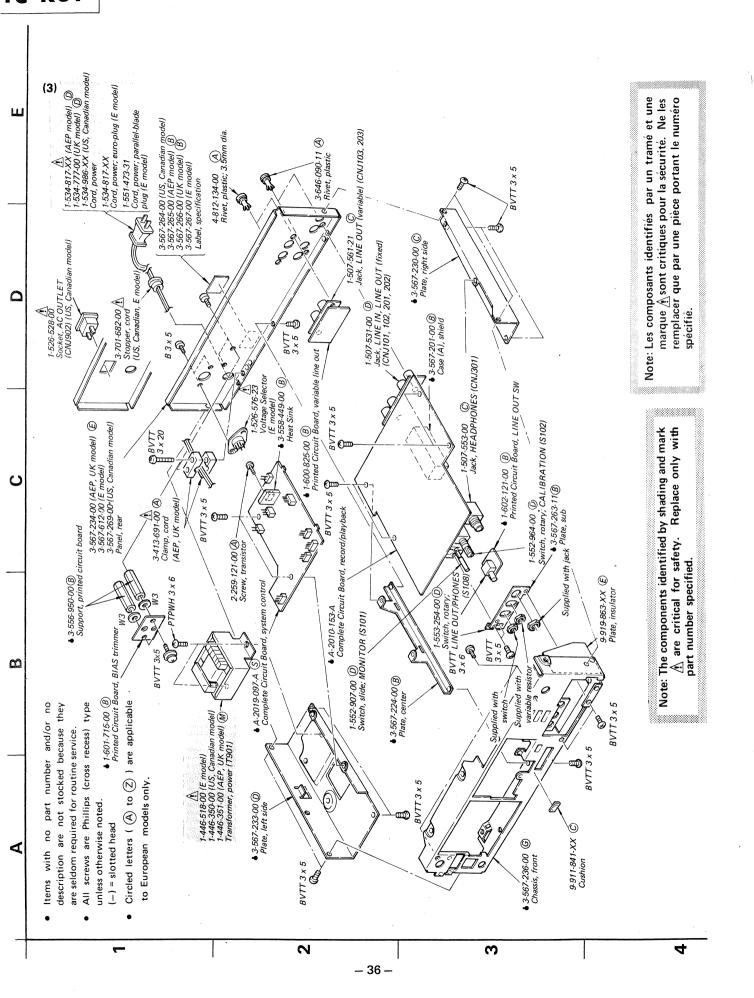
## SECTION 5

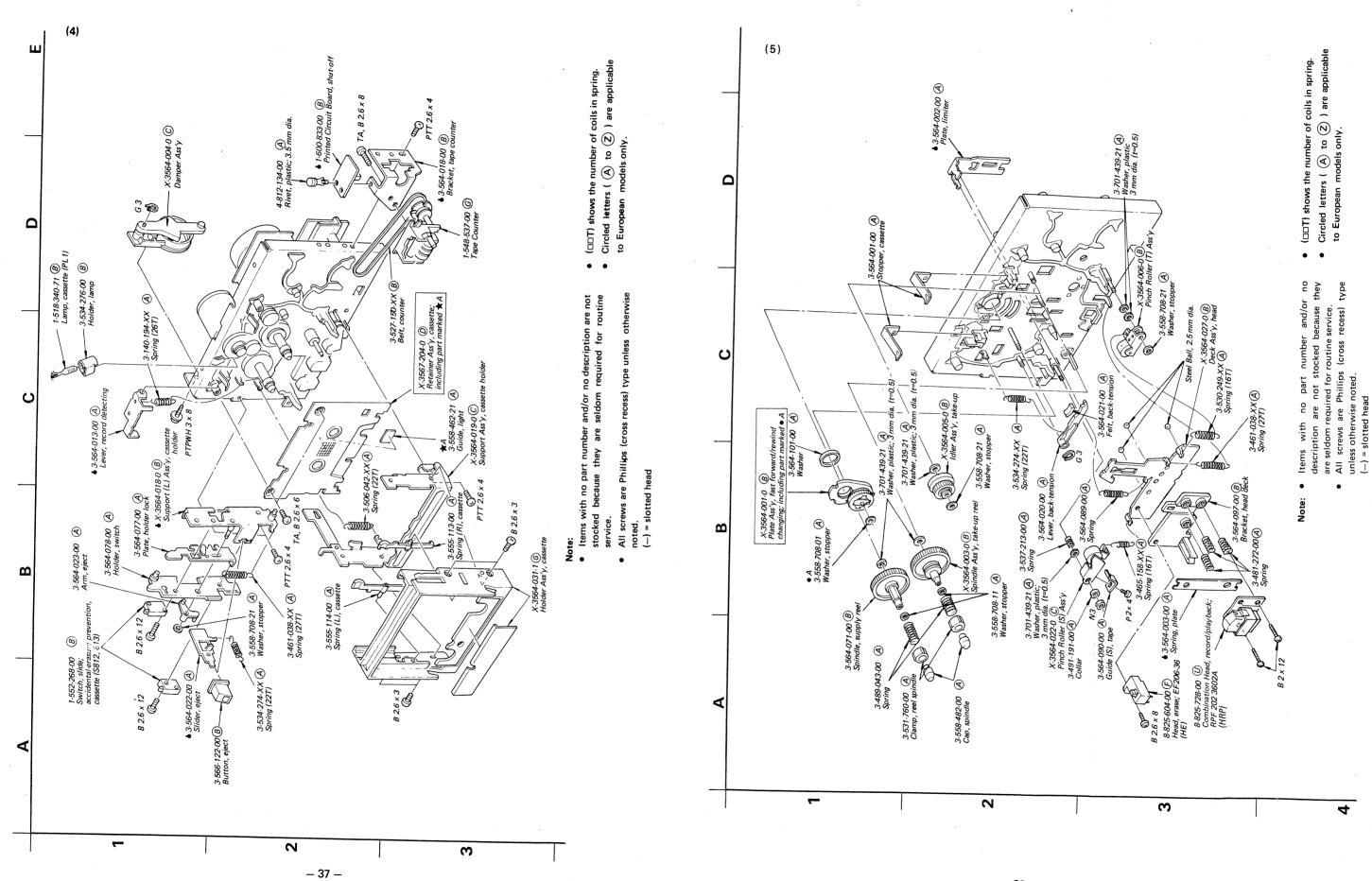




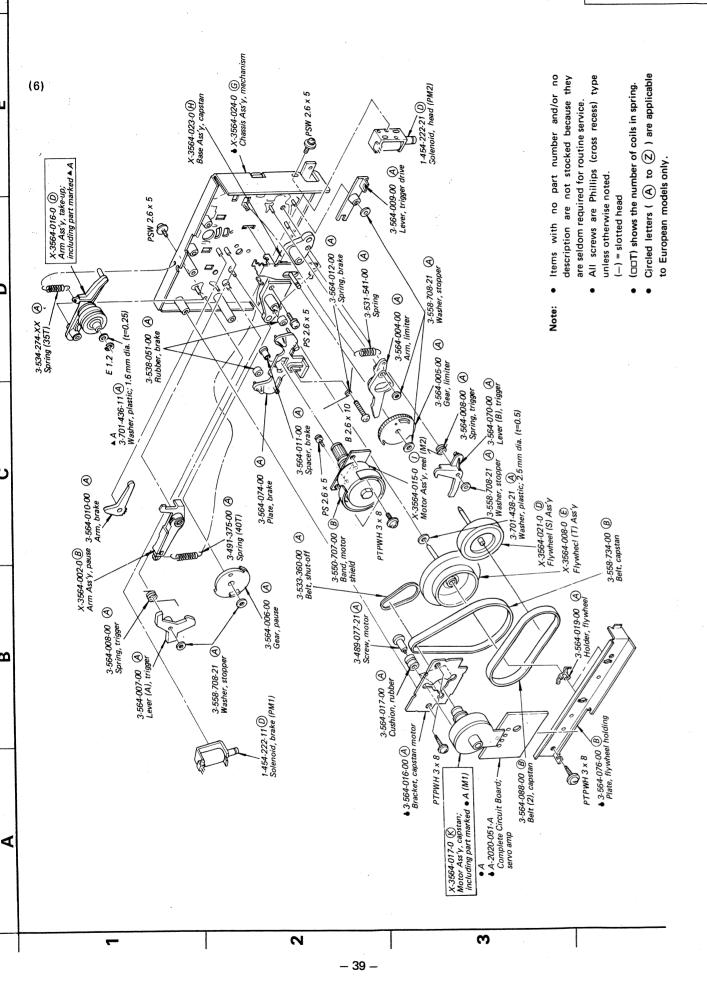
-34 -







### **SECTION 6** ELECTRICAL PARTS LIST



Ref. No. Part No.		Description	
	SEM	CONDUCTORS	
	٦	Fransistors	
Q101, 201	8-729-113-82	© 2SA1138	
Q102, 202	8-729-167-62	B 2SC2676	
Q103, 203	8-729-387-28	B 2SA872-E	
Q104, 204	8-729-663-47	© 2SC1364	
Q105, 205	8-729-100-13	B 2SC2001	
Q106-108 Q206-208	8-729-663-47	© 2SC1364	
Q109, 209	8-729-665-47	(B) 2SC1362	
Q110, 210		(B) 2SC2001	
Q111, 211	8-729-663-47	© 2SC1364	
Q301, 302 Q401, 402	8-729-334-58	B 2SC1345	
Q401, 402 Q501	8-729-203-04	(B) 2SK30A	
Q501 Q502	8-729-141-43	(B) 2SD414	
Q502 Q503, 504	8-729-665-47	(B) 2SC1362	
Q505, 304 Q505	8-729-203-04	(B) 2SK30A	
Q506, 507	8-729-612-77	B 2SA1027R	
	0 720 154 92	(B) 2SB548	
Q508	8-729-154-83 8-760-413-10	(B) 2SC1475	
Q509	8-760-413-10 8-729-663-47	(B) 2SC1473	
Q510		(B) 2SA1027R	
Q511	8-729-612-77 8-729-663-47	(B) 2SC1364	
Q512-515	0-147-003-4/	_	
Q516	8-729-612-77	B 2SA1027R	
Q518	8-729-663-47	B 2SC1364	
Q601	8-729-101-31	B N13T1	
Q602	8-729-663-47	B 2SC1364	
Q603-606	8-729-195-23	B 2SA952	
Q801	8-729-180-93	B 2SD809	
Q802	8-729-612-77	B 2SA1027R	
Q803	8-729-154-83	B 2SB548	
Q804	8-729-663-47	© 2SC1364	
Q805	8-729-154-83	(B) 2SB548	
Q806	8-729-663-47	© 2SC1364	
Q807	8-729-141-43	B 2SD414	
Q808	8-729-612-77	B 2SA1027F	
Q809	8-729-663-47	© 2SC1364	
Q810	8-729-468-43	(C) 2SA684	

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Note:	Circled	l letters (	to Z	) are ap	plicable	
	to Eur	opean mod	els only			
No	$\triangle$		al for	safety.	by shading a Replace o	
×						

Ref. No.	Part No.	Description
Q811, 812	8-760-413-10	(B) 2SC1475
Q817-819	8-729-663-47	© 2SC1364
Q820	8-729-101-03	B PH103
Q821	8-729-663-47	© 2SC1364
Q821 Q822	8-729-154-83	(B) 2SB548
Q022	0 723 10 1 00	<b>22</b> 20000
Q823	8-729-663-47	© 2SC1364
Q1001,1002	8-729-663-47	÷
Q1003	8-760-335-10	B 2SC1474
Q1004	8-729-468-43	© 2SA684
Q1005	8-760-335-10	© 2SC1474
Q1006	8-729-468-43	© 2SA684
		ICs
IC101, 201	8-759-101-74	(F) CX174
	8-759-145-57	(D) μPC4557C
	8-759-145-58	(D) μPC4558C
IC104, 204		(F) CX174
IC501	8-759-145-57	(D) μPC4557C
20002		
IC601	8-759-993-50	
IC801	8-759-147-42	μPD547C-042
IC802, 803	8-759-904-69	© MSM4069
IC805	8-759-133-90	(F) μPC339C
IC806	8-759-145-58	D μPC4558C
IC1001	8-750-690-00	(D) CX069
IC1001	8-759-145-58	D μPC4558C
101002	0,0, 1,1	
		Diodes
D101-106	8-719-815-55	B 1S1555
D201-206	0-719-013-33	<u>Б</u> 151300
D501, 502	8-719-910-65	B HZ6B2L
D503-510	8-719-815-55	B 1S1555
D512-514)	1 000 000 11	(K) SEL8806
D601	1-800-822-11	namen a Antonia de Santa de S
D801-809	<u>/</u> 8-719-200-02	(B) 10E2
D810, 811	8-719-910-15	B HZ11B2L
D812, 813	8-719-815-55	B 1S1555
D814	8-719-200-02	B 10E2
D815	<u> </u>	B 1S1555
D816	8-719-910-23	B HZ12A3L

Note: Les composants identifiés par une trame et une marque A sont critiques pour la sécuri té. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description
D817	<b>№</b> 8-719-815-55	(B) 1S1555
D818	8-719-910-23	B HZ12A3L
D819	8-719-910-25	B HZ12B2L
D821	8-719-200-02	B 10E2
D828-831	8-719-815-55	B 1S1555
D824 D825	8-719-313-31 8-719-311-12	B SEL1331G B SEL1112R
D826	8-719-311-12	(B) SEL1112R (B) SEL1741Y
D827	8-719-101-11	(B) SR110
D832, 833	8-719-815-55	B 1S1555
D1001	8-719-910-65	B HZ6B2L

#### CAPACITORS

All capacitors are in  $\mu F$  and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics and tantalum. Common capacitors are omitted. Refer to the lists on page 44 and 45 for their part numbers.

C001, 011	1-141-010-XX	B Trimmer			
C102, 202	1-161-319-00	(A) 470p			
C103, 203	1-107-304-00	(B) 150p	100V	silvered mica	
C106, 206	1-130-305-00	B 0.022	100V	polyethylene	
C109, 209	1-123-231-00	B 3.3	50V	elect (nonpolarized)	
C110, 210	1-130-307-00	B 0.027	100V	polyethylene	
C111, 211	1-161-323-00	(A) 0.001			
C115, 215	1-123-286-00	B 0.33	50 <b>V</b>	elect	
C121, 221	1-130-341-00	B 0.056	100V	polyethylene	
C122, 222	1-130-340-00	B 0.018	100V	polyethylene	
C123, 223	1-130-339-00	B 0.0056	100V	polyethylene	
C124, 224	1-123-232-00	B 4.7	50 <b>V</b>	elect (nonpolarized)	
C126, 226	1-123-228-00	B 1	50V	elect (nonpolarized)	
C135, 235	1-123-286-00	B 0.33	50 <b>V</b>	elect	
C141, 241	1-130-341-00	B 0.056	100V	polyethylene	
		_			
C142, 242	1-130-340-00	B 0.018	100V	polyethylene	
C143, 243	1-130-339-00	B 0.0056	100V	polyethylene	
C144, 244	1-123-232-00	B 4.7	50V	elect (nonpolarized)	
C147, 247	1-123-231-00	B 3.3	50 <b>V</b>	elect (nonpolarized)	
C148, 248	1-130-307-00	B 0.027	100V	polyethylene	
C150, 250	1-123-234-00	B 10	50 <b>V</b>	elect (nonpolarized)	
C156, 256	1-123-232-00	B 4.7	50V	elect (nonpolarized)	
C303, 403	1-121-651-00	A 10	16V	elect	

Note: Circled letters ( A to Z ) are applicable to European models only.

Note: The components identified by shading and mark nare critical for safety. Replace only with part number specified.

	Ref. No.	Part No.	Descr	ription	
	C304, 404	1-161-323-00	(A) 0.001		
	C305, 405	1-123-230-00	B 2.2	50V	elect (nonpolarized)
	C306, 406	1-123-228-00	(B) 1	50V	elect (nonpolarized)
	C507	1-130-338-00	(B) 0.01		polyethylene
	C508	1-130-297-00	B 0.01		polyethylene
	C509	1-130-303-00	(B) 0.018		polyethylene
	C522	1-161-315-00	(A) 220p	100 •	polyethylene
	C530, 531	1-131-450-00	(C) 1	35V	tantalum
	C601	1-121-651-00	(A) 10	16V	
	C801_802_/	1-123-337-00	(B) 1000	25V	
		1-123-324-00	B) 1000	16V	
		1-130-232-00	(B) 0.22		film (UK model)
	C901	1-130-456-00	(C) 0.022		film (AEP model)
	C Zi	11 130 430 00	0.022	230 V	min (AEF model)
	C1001,1002	1-123-306-00	B 47	10 <b>V</b>	elect
l	C1003	1-123-316-00	B 10	16V	elect
	C1004	1-123-354-00	B) 3.3	50V	elect
	C1005	1-130-134-00	B 0.082	100V	polyethylene
		1-130-232-00	B 0.22	300V	film (UK model)
		1-130-456-00	© 0.022	250V	film (AEP model)
		R	ESISTORS		
		sistors are in oh			
	ors are part n	e omitted. Refer umbers. kΩ: 100	to the list $00 \Omega, M\Omega$ :	on page 4 1000 kΩ	6 for their
	R102, 202	1-214-840-00	(B) 100	½W	metal oxide
	R104, 204	1-214-881-00	(B) 5.1k	½W	metal oxide
	R106, 206	1-214-781-00	(A) 150k	,	metal oxide
	R112, 212	1-214-737-00	(A) 2.2k		metal oxide
	R113, 213	1-214-739-00	(A) 2.7k		metal oxide
	R124, 224	1-214-765-00	(A) 33k		metal oxide
	R125, 225	1-214-757-00	(A) 15k		metal oxide
	R134, 234	1-214-872-00	(A) 2.2k	½W	metal oxide
	R136, 236	1-214-737-00	(A) 2.2k		metal oxide
	R144, 244 🛕	1-244-849-00	(A) 100	½W	carbon
	R149, 249 🥂	1-244-847-00	(A) 82	½W	carbon
		1-214-872-00	B) 2.2k		metal oxide
		1-214-872-00	B 2.2k		metal oxide
		1-214-905-00	(B) 47k		metal oxide
	D4==	1-214-761-00	(A) 22k		metal oxide
			-		

Note: Les composants identifiés par une trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

R178, 278 1-214-763-00 (A) 27k

R180, 280 1-214-753-00 (A) 10k

R189, 289) 1-214-777-00 (A) 100k

R188, 288

metal oxide

metal oxide

metal oxide

Note: Circled letters ( A to Z ) are applicable to European models only.

t	o European mod	els only.		
Ref. No.	Part No.	Descri	ption	
R191, 29	1 1-214-737-00	A 2.2k		metal oxide
R192, 29	2 1-214-739-00	(A) 2.7k		metal oxide
R312, 41	2 1-214-753-00	$\simeq$		metal oxide
R313, 41		$\simeq$		metal oxide
R502	<b>1-214-856-00</b>	<u> </u>	½W	
R503	<u></u>	O 1 1 1 1 1	½W	metal oxide
R505	<u></u> 1-214-856-00	(B) 470	½W	metal oxide
R506	<b>1-214-862-00</b>		½W	metal oxide
	1-244-849-00	$\sim$		carbon
R802	<u>1</u> 1-212-867-00		½W	
R805	<u>11-247-240-00</u>	(A) 1k	1/W	fusible
11000	/ <u>!\</u> 1-2+7-2+0-00	A) IK	½W	A Record and the Control of the Cont
			(non	lammable)
R806	<u>1</u> 1-217-379-00	B 2.2	1/4W	fusible
R814, 820	<u>1-212-857-00</u>	(A) 10	¼W	fusible
R922	<u>1-246-433-00</u>	(A) 22	¼W	carbon
RV001, 01	1 1-226-721-00	(D) 100k/1	00k-A, v	ariable; BIAS CAL
RV101, 20	1 1-224-645-XX			le; playback level
RV102	11 226 225 22	$\overline{}$		
RV104, 20	4) 1-226-235-00	(A) 5k-B, ac	ljustable	; level meter
	5 1-226-560-00	(C) 5k-B, va	riable: F	REC LEVEL CAL
	6 1-224-646-XX			e; record level
RV301 40	1 1-226-722-00	(F) 201-/201		11 2222
	3 1-226-232-00			able; REC LEVEL
RV1001	1-226-433-00	B 500-B, a		
KV1001	1-220-433-00	(D) 50k-B, a	idjustabl	e; tape speed
	MIS	CELLANEOU	S	
	1-231-326-11	B Encapsu	lated Co	mponent (US model)
CP901 \ \( \( \)	<u>1</u> 1-231-341-00	© Spark K	iller (Car	nadian model)
<u>L</u>	1-231-341-00	© Encapsu	lated Co	mponent (E model)
CNJ101, 10 CNJ201, 20	11-50/-531-00	© Jack, LII	NE IN, I	INE OUT (fixed)
	3 1-507-526-21			(variable)
CNJ301	1-507-553-00	© Jack, HE		,
CNJ302	1-507-525-00	D Jack, MI		NES
CNJ901	1-561-293-00	D Socket, 4		OTE
C113701	1-301-293-00	D BOCKCI,	p, KEM	OIE
CNJ902	1-526-528-00	Socket, A		LÉT anadian model)
HE	8-825-604-00	F Head, era		
HRP	8-825-728-00			d, record/playback;
	, 20 03	RPF202-		a, record/playback;
L101, 201	1-407-240-00	B 22mH, in		variahle
L102, 202	1-408-259-00	B 15mH, m		
• "	,		_o.o.nuu	
			888888888888888888888888888888888888888	

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified. • Items marked "•" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

	Ref. No.	Part No.	Description
	L301, 401 L302, 402	1-408-253-00 1-408-250-00	2 117 111-23, 111102 01110 0101
	L303, 403 L304, 404	1-408-249-00	
	1 ′	01 1-231-388-00	D Filter, lowpass
	PL1, 2	1-518-340-71	~ '
1 (1) 1 (1) (1) 1 (1) (1)		1-518-386-00	B Lamp, meter
	PM1	1-454-222-11	Delease, craine
	PM2	1-454-222-21	<u> </u>
2 m 20 m	M1	X-3564-017-0	Co made inde y, curpotum
	M2	X-3564-015-0	© 1.200 , , 100.
	S101	1-552-907-00	D Switch, slide; MONITOR
	S102	1-552-964-00	Switch, rotary; CALIBRATION
	S103	1-552-879-00	© Switch, pushbutton;
			INPUT SELECT
	S104	1-552-880-00	© Swtich, slide; DOLBY NR
	S105	1-552-878-00	D Switch, slide; EQ
	S106	1-552-877-00	© Switch, slide; BIAS
	S107	1-552-876-00	D Switch, pushbutton,
			REAK HOLD RESET
	S108	1-553-254-00	D Switch, rotary; LINE OUT/PHONES  (AEP, E, UK model)
	<u>/</u>	1-552-530-00	Switch, pushbutton; POWER
	S801 }		(US, Canadian model)  (D) Switch, pushbutton; POWER
ľ		Δ1 552 365 60	(AEP, E, UK model)
	S802-808	1-552-919-00	K Switch, block; function
	S809	1 552 520 00	(K) included in tape counter
	S810, 811 S812, 813	1-552-520-00	© Switch, slide; MEMORY, timer
1)	3012, 613	1-552-268-00	B Switch, slide, accidental-erasure
	T301	1-433-213-21	prevention, cassette  (C) Transformer, osc
		1-433-213-21	· · · · · · · · · · · · · · · · · · ·
	<u> /2</u>	71-440-330-00	Transformer, power
	T901 {	1-446-351-00	(US, Canadian model)
		1-446-351-00 1-446-518-00	M Transformer, power (AEP, UK model) Transformer, power (E model)
	The state of the s	1-508-878-00	(A) Base Post, MCD Connector
		1-508-879-00	(B) Base Post, MCD Connector
	1985 School dissipands	1-526-576-21	<ul> <li>Printer a considera e constitue del propositione de la constitue de la constitue</li></ul>
		1-534-777-00	Voltage Selector (E model)
i .	EN MERED CATALOG SERVE	1-534-817-XX	(D) Cord, power (UK model) (D) Cord, power; euro-plug
		1 33 1 01 / <b>X</b> X	(AEP, E model)
	▲	1-534-986-XX	Cord, power (US, Canadian model)
		1-535-116-00	A Terminal with base post 3p
1	<u> </u>	1-551-473-31	Cord, power; parallel-blade plug
5	<b>6</b> 1	1-560-060-00	(E model) (A) Connector Pin
- 3			

Note: Les composants identifiés par une trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Part No.

Description

- **♦** 1-560-061-00 **(A)** Connector Pin **♣** 1-560-062-00 (B) Connector Pin
- **♣** 1-560-064-00 (B) Connector Pin
- **♦** 1-561-378-00 **(B)** Connector Pin 3p **1**-561-379-00 **B** Connector Pin 4p
- **♣** 1-561-380-00 (B) Connector Pin 5p

#### COMPLETE CIRCUIT BOARDS

- **♣** A-2010-153-A
- Record/Playback ♣ A-2019-097-A S System Control
- ♣ A-2020-051-A Servo Amp/Mic Amp/Control Mic Amp/Control
- ♣ A-2022-028-A
- ♣ A-2029-039-A (L) Meter

#### PRINTED CIRCUIT BOARDS

- **♣** 1-600-821-00 (H) Record/Playback
- **♦** 1-600-824-00 **B** CAL Control
- **1**-600-825-00 (B) Variable Line Out
- **▲** 1-600-827-00 (C) Meter
- **♣** 1-600-828-00 (B) Peak Reset Switch
- **♦** 1-600-829-00 (H) System Control
- **♣** 1-600-831-00 **B** Memory Switch
- **♣** 1-600-832-00 (B) Timer Switch
- **♣** 1-600-833-00 (B) Shut-off
- **♦** 1-601-715-00 **B** BIAS Trimmer
- **♦** 1-601-716-00 (B) BIAS CAL Control
- **♦** 1-602-121-00 (B) LINE OUT SW

ACCESSORIE	ACCESSORIES AND PACKING MATERIALS			
Part No.	Description			
X-3701-105-0	(A) Tip Ass'y, head cleaning			
1-551-734-11	D Cord, connection; RK-74A			
3-561-142-00	Cushion, upper-front (Canadian model)			
3-561-143-00	Cushion, upper-rear (Canadian model)			
3-561-144-00	Cushion, bottom-right (Canadian model)			
3-561-145-00	Cushion, bottom-left (Canadian model)			
3-566-148-00	B Cushion, upper-front (US, AEP, UK, E model)			
3-566-149-00	B Cushion, upper-rear (US, AEP, UK, E model)			
3-566-150-00	B Cushion, bottom-right (US, AEP, UK, E model)			
3-566-151-00	B Cushion, bottom-left (US, AEP, UK, E model)			
3-567-250-00	Carton (E model)			
3-701-630-00	A Bag, plastic			
3-703-157-01	A Label, destination			
3-783-186-11	Manual, instruction (AEP, UK, E model)			
3-783-186-21	Manual, instruction (US model)			
3-783-186-21	Manual, instruction (Canadian model)			
3-794-826-31 <sup>)</sup>	manual, instruction (Canadian model)			
3-793-481-12	(A) Leaflet			
3-793-828-11	(A) Caution Card, cassette			
3-794-826-31	Leaflet (Canadian model)			
4-860-421-00	B Bag, protection			

Note: Circled letters ( A to Z ) are applicable to European models only.

• Items marked "\delta" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

#### **ELECTROLYTIC CAPACITORS**

Note: Circled letter ( (A) to (Z) ) are applicable to European models only.

			RATING		→: Use the high voltag	e rated one.
CAP, (μF)	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
CAr. (µr)	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47					. →	1-121-726-00 (A
1.0				,	→	1-121-391-00 (A
2.2					<b>→</b>	1-121-450-00 (A
3.3	→		<b>→</b>	1-121-392-00 (A)	· →	1-121-393-00 (Ā
4.7	→	<b>→</b>	→	1-121-395-00 (A)	→	1-121-396-00
10	<b>→</b>	<b>→</b>	1-121-651-00 (A)	1-121-398-00 (A)	<b>→</b>	1-121-738-00 (A
22	<b>→</b>		1-121-479-00 (Ā)	1-121-480-00 (A)	1-121-662-00 (A)	1-121-152-00 (Ā
33	→	<b>→</b>	1-121-403-00 (A)	1-121-404-00 (A)	1-121-652-00 (B)	1-121-405-00 (Ā
47	→ .	1-121-352-00 (A)	1-121-409-00 (A)	1-121-410-00 (A)	1-121-653-00 (B)	1-121-411-00
100	<b>→</b>	1-121-414-00 (A)	1-121-415-00 (A)	1-121-416-00 (A)	1-121-357-00 (B)	1-121-417-00 (E
220	1-121-419-00 B	1-121-420-00 B	1-121-421-00 (A)	1-121-422-00 (B)	1-121-261-00 (C)	1-121-423-00 (B
330	1-121-751-00 B	1-121-805-00 B	1-121-521-00 (C)	1-121-654-00 B	1-121-655-00 (D)	1-121-656-00 🧖
470	1-121-424-00 B	1-121-425-00 ©	1-121-426-00 ©	1-121-733-00 (B)	1-121-361-00 (E)	1-121-810-00 (E
1000	-	1-121-736-00 ©	1-121-245-00 (D)	1-121-657-00 (D)	1-121-388-00 (E)	1-123-061-00 (F
2200	1-121-658-00 B	1-121-659-00 ©	1-121-660-00 D	1-123-067-00 (F)	1-121-984-00 (F)	_
3300	1-121-661-00 D	1-123-075-00 (E)	1-123-071-00 (F)	_	-	

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
CAP. (µP)	PART No.	PART No.	PART No.	PART No.
0.47	-	_	_	_
1.0	1-123-249-00 (A)	1-123-252-00 (A)	1-123-003-00 (B)	1-121-168-00 (B)
2.2	1-123-250-00 (Ā)	1-123-026-00 (B)	_	1-123-028-00 (B)
3.3	1-121-995-00 (A)	_	1-123-004-00 (B)	1-123-006-00 (C)
4.7	1-123-255-00 (A)	1-121-246-00 (B)	1-121-759-00 B	1-123-007-00 D
10	1-121-126-00 B	1-121-999-00 B	1-123-254-00 (C)	1-123-008-00 (D)
22	1-121-996-00 ©	1-123-253-00 ©	1-123-005-00 (D)	1-123-022-00 D
33	1-121-997-00 ©	1-121-757-00 (Č)	-	
47	1-123 251-00 ©	1-121-919-00 (Č)	_	uner .
100	1-123-084-00 (E)	_	_	_

#### CERAMIC CAPACITORS (A)

			RAT	ING			
CAP. (pF)	50 VOLT.	CAD (-5)	50 VOLT.	CAD (-5)	50 VOLT.	CAP. (μF)	50 VOLT.
CAP. (pr)	PART No.	CAP. (pF)	PART No.	CAP. (pF)	PART No.	CAP. (µF)	PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

 $0.001\mu F = 1,000pF$ 

#### CERAMIC (SEMICONDUCTOR) CAPACITORS (A)

RATING →: Use the high voltage rated one.									
CAP. (µF)	25 VOLT.	50 VOLT.	OAD (::E)	25 VOLT.	50 VOLT.				
CAP. (µP)	PART No.	PART No.	CAP. (µF)	PART No.	PART No.				
0.001	-	1-161-039-00	0.018	1-161-016-00	1-161-054-00				
0.0012	<b>→</b>	1-161-040-00	0.022	1-161-017-00	1-161-055-00				
0.0015	1	1-161-041-00	0.027	1-161-018-00	1-161-056-00				
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00				
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-00				
0.0027	→	1-161-044-00	0.047	1-161-021-00	1-161-059-00				
0.0033	→	1-161-045-00	0.056	→	1-161-060-00				
0.0039	<b>→</b>	1-161-046-00	0.068	→ '	1-161-061-00				
0.0047	→	1-161-047-00	0.082	1-161-024-00	1-161-062-00				
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00				
0.0068	<b>→</b>	1-161-049-00							
0.0082	1-161-012-00	1-161-050-00	<b>.</b>						
0.01	1-161-013-00	1-161-051-00							
0.012	<b>→</b>	1-161-052-00							
0.015	1-161-015-00	1-161-053-00							

#### MYLAR CAPACITORS (A)

Note: Circled letters ( A to (2)) are applicable to European models only

	RATING											
CAP. (µF)	50 VÓLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	040 ( 5)	50 VOLT.	100 VOLT.	200 VOLT.	
ΟΑΙ. (μΙ )	PART No.	PART No.	PART No.	CAP. (µF)	PART No.	PART No.	PART No.	CAP. (µF)	PART No.	PART No.	PART No.	
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00	
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00	
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00	
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00	
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00	
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	-	-	
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	-	_	
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	-	_	
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00		_	
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00		ĺ		1	
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00					
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00	-				



			11 11				
			RATING	→:	Jse the high voltage	rated one.	
CAP. (µF)	3.15 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.01					<b>→</b>	<b>→</b>	1-131-396-00 (B)
0.015				İ		→	1-131-397-00 B
0.022				1	1	<b>→</b>	1-131-398-00 (B)
0.033						· → .	1-131-399-00 (B)
0.047						→	1-131-400-00 (B)
0.068					-		1-131-401-00 (B)
0.1					→	<b>→</b>	1-131-402-00 (B)
0.15					<b>→</b>	<b>→</b>	1-131-403-00 (B)
0.22				-	<b>→</b>	<b>→</b>	1-131-404-00 (B)
0.33					→	1-131-409-00 (B)	1-131-405-00 (B)
0.47	-	_	-	_	1-131-412-00 (B)	<b>→</b>	1-131-406-00 (B)
0.68	-	-	-	1-131-415-00 B	→	1-131-410-00 (B)	1-131-407-00 (B)
1.0	_	-	1-131-418-00 B	-	1-131-413-00 (B)	→ Ŭ	1-131-408-00 (B)
1.5	-	1-131-421-00 B		1-131-416-00 B	<b>→</b>	1-131-411-00 (B)	1-131-348-00 (B)
2.2	1-131-424-00 B		1-131-419-00 B	= -	1-131-414-00 (B)	1-131-355-00 (B)	1-131-349-00 (B)
3,3	-	1-131-422-00 B	_	1-131-417-00 B	1-131-362-00 (B)	1-131-356-00 (B)	1-131-350-00 (B)
4.7	I-131-425-00 B	_	1-131-420-00 B	1-131-369-00 (B)	1-131-363-00 (B)	1-131-357-00 (B)	1-131-351-00 (C)
6.8		1-131-423-00 B	1-131-37.6-00 B	1-131-370-00 B	1-131-364-00 (B)	1-131-358-00 (C)	1-131-352-00 (C)
10	1-131-426-00 B		1-131-377-00 B	1-131-371-00 B	1-131-365-00 (C)	1-131-359-00 (C)	1-131-353-00 (D)
15		I-131-384-00 B	1-131-378-00 B	1-131-372-00 B	1-131-366-00 (C)	1-131-360-00 (D)	_
22		1-131-385-00 B	1-131-379-00 ©	1-131-373-00 ©	1-131-367-00 D		
33		1-131-386-00 ©	1-131-380-00 ©	1-131-374-00 D			
47		1-131-387-00 ©	1-131-381-00 D	_			
68	1-131-394-00 B	1-131-388-00 🔘	-	_			
100	1-131-395-00 D	-		_			



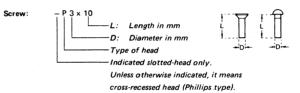
			RATING			
CAP. (µF)	3 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	35 VOLT.
OA1. (μ1 )	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.033						1-131-273-00 Œ
0.047						1-131-274-00 Œ
0.068						1-131-275-00 (E
0.1						1-131-276-00 Œ
0.15						1-131-277-00
0.22			-	-	1-131-262-00 D	1-131-278-00 (I
0.33			_	_	1-131-263-00 D	1-131-279-00
0.47			1-131-169-00 D	-	1-131-264-00 D	1-131-280-00
0.68			-	1-131-258-00 (D)	1-131-265-00 D	1-131-28 1-00
1.0			1-131-254-00 (D)	_	1-131-266-00 (D)	1-131-282-00
1.5		1-131-250-00 D	_	-	1-131-267-00 (D)	1-131-283-00 (E
2.2		-	. –	1-131-259-00 D	1-131-268-00 D	1-131-284-00 (I
3.3		-	1-131-255-00 D	-	1-131-269-00 D	
4.7		1-131-251-00 E	1-131-171-00 D	-	1-131-270-00 D	
6.8		- /		1-131-260-00 D	1-131-271-00 (E)	_
10	-	-	1-131-256-00 D	-	1-131-272-00 (E)	-
15	-	1-131-252-00 D	-	1-131-261-00 (E)		
22	-	- "	1-131-257-00 E	-		
33	1-131-176-00 D	1-131-253-00 E	1-131-173-00 · ©	-		
47	1-131-288-00 (F)	1-131-174-00 D		. –		
100	1-131-177-00 D					

1/4 WATT CARBON RESISTORS (A)

Note: Circled letter (A) is applicable to European models only.

Ω	Part No:	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00			1	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00			12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00		1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1	1-246-405-00		1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
							- 010	100	1 040 500 00	1001	1 046 506 00	1 CM	1-210-818-00
- 1	1-246-406-00		1-246-430-00		1-246-454-00		1-246-578-00		1-246-502-00		1-246-526-00	1	1-210-819-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00		1-246-579-00		1-246-503-00		1-246-527-00		1
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00		1-246-528-00	l	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	1	1-246-529-00	H	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2 7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00			30k		i i	1-246-532-00	3.0M	1-244-756-00
1	1-246-413-00	33	1-246-437-00	330	1-246-461-00		1-246-585-00	33k	1-246-509-00		1-246-533-00	3.3M	1-244-757-00
3.3	1-246-414-00	36	1-246-438-00	360	1-246-462-00	i	i	36k	1-246-510-00		1-246-534-00		1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00		- 1	1			1-246-535-00	3.9M	1-244-759-00
3.3	1 240 410 00		1 210 100 00	000	2 210 111 11								
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	}	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00		1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
			-							2001	1 046 541 00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00		1-246-493-00	1	1-246-517-00		1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k			1-246-518-00	750k			
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00		1-246-519-00	820k			
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		
										l		Ī	

#### HARDWARE NOMENCLATURE



Reference Designation	Shape	Description	Remarks
		SCREWS	
Р	₽	pan-head screw	binding-head (B) screw for replacement
PWH	₽	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP	#3>	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment
PSW PSPW	<del>(M)</del>	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R	₽	round-head screw	binding-head (B) screw for replacement
К	₽	flat-countersunk-head screw	
RK	₽	oval-countersunk-head screw	
В	₽	binding-head screw	
T	₽	truss-head screw	binding-head (B) screw for replacement
F	₩	flat-fillister-head screw	
RF	€⊒	fillister-head screw	
BV ·	€	braizer-head screw	

aining ring:
3
Diameter of usable screw or shaft
Reference designation

Reference Designation	Shape	Description	Remarks						
		SELF-TAPPING SCRE	WS						
TA		self-tapping screw	ex: TA, P 3 x 10						
PTP	<b>₽</b>	pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement						
PTPWH	<b>+</b>	pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement						
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement						
SET SCREWS									
SC	-=-	set screw							
sc	-@€⊒-	hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket						
		NUT							
N-	-[]-(-)-	nut							
		WASHERS							
w	0	flat washer							
SW	<b>-⊚-</b> {-	spring washer	nyl 4						
LW	0	internal-tooth lock washer	ex: LW3, in ternal						
LW	٥	external-tooth lock washer	ex: LW3, external						
		RETAINING RINGS							
E	6	retaining ring							
G	8	grip-type retaining ring							
<u> </u>									

### **Sony Corporation**

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80B02112-1 Printed in Japan

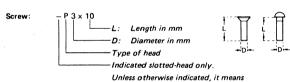
9-954-880-01 with RM-50

#### 1/4 WATT CARBON RESISTORS ®

Note: Circled letter (A) is applicable to European models only.

Ω	Part No:	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1 0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1	1-246-474-00	11k	1-246-498-00	110k			1-210-814-00
1.1	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k		12k	1-246-499-00	120k	1-246-523-00	1	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k		13k	1-246-500-00	130k		1	1-210-816-00
	1-246-405-00	15	1-246-429-00			1	1-246-577-00		1-246-501-00	1 1	1-246-525-00	1	1-210-817-00
1.5	1-246-403-00	13	1 240 429 00	130	1 240 455 00	1.04	1 240 017 00	TOK	1 210 001 00	20011			
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00		1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00		1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00		1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
				070	1 040 450 00	0.71	1 046 500 00	071	1-246-507-00	2701-	1-246-531-00	2 7M	1-244-755-00
2.7	1-246-411-00	27	1-246-435-00			l	1-246-583-00		1-246-508-00		1-246-532-00	1	1-244-756-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k		1	1-246-533-00	1	1-244-757-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	360k	1-246-534-00	1	1-244-758-00
	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k		1	1-246-535-00		1-244-759-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390K	1-240-333-00	3.5111	1-244 735 00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7		47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1		51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6		56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
"-	-												
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00		1-246-493-00	į.	1-246-517-00	1			
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	l .	1-246-494-00	75k	1-246-518-00	750k			
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	l .	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		ĺ
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		
				L	L	L		<u> </u>	L			L	

#### HARDWARE NOMENCLATURE



Unless otherwise indicated, it means cross-recessed head (Phillips type).

Reference Designation	Shape	Description	Remarks
	L	SCREWS	-
Р	₽	pan-head screw	binding-head (B) screw for replacement
PWH	₽	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP	₩3-	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment
PSW PSPW	<del>(#</del>	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R	₽	round-head screw	binding-head (B) screw for replacement
К	Þ	flat-countersunk-head screw	
RK	€□	oval-countersunk-head screw	
В	₽	binding-head screw	
Т	₽	truss-head screw	binding-head (B) screw for replacement
F	₽⊃	flat-fillister-head screw	
RF	€⊒	fillister-head screw	
BV ·	<del>()</del>	braizer-head screw	

Nut, Washer,	Retaining ring:
	N 3  Diameter of usable screw or shaft
	Reference designation

Reference	Shape	Description	Remarks				
Designation Snape							
SELF-TAPPING SCREWS							
TA		self-tapping screw	ex: TA, P3 x 10				
PTP	<b>=</b>	pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement				
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement				
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement				
		SET SCREWS					
sc		set screw					
SC	-0=	hexagon-socket set screw	ex: SC 2.6 × 4, hexagon socket				
		NUT					
N	-[]-@-	nut					
WASHERS							
w	0	flat washer					
SW		spring washer					
LW	0	internal-tooth lock washer	ex: LW3, in ternal				
LW	٥	external-tooth lock washer	ex: LW3, external				
RETAINING RINGS							
E	0	retaining ring					
G	8	grip-type retaining ring					

#### **Sony Corporation**

#### MYLAR CAPACITORS (A)

Note: Circled letters ( A to Z ) are applicable to European models only.

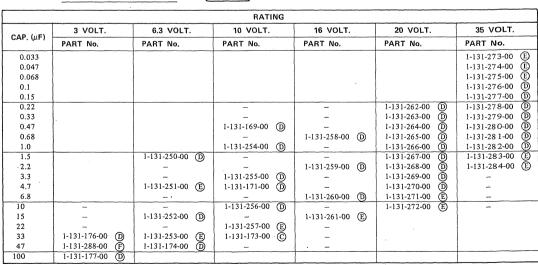
	RATING										
0.0 ( 5)	50 VOLT. 100 VOLT. 200 VOLT.	OAD (	50 VOLT.	100 VOLT.	200 VOLT.	000 ()	50 VOLT.	100 VOLT.	200 VOLT.		
CAP. (µF)	PART No.	PART No.	PART No.	CAP. (µF)	PART No.	PART No.	PART No.	CAP. (µF)	PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	_	-
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	~	- 1
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	-	-
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	_	-
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				



#### TANTALUM CAPACITORS

			—       ———————————————————————————————		1 1 1			
	RATING →: Use the high voltage rated one.							
CAP. (μF)	3.15 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.	
CAF. (µF)	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	
0.01						<b>→</b>	I-131-396-00 B	
0.015						·	1-131-397-00 B	
0.022						<b>→</b>	1-131-398-00 B	
0.033						-	1-131-399-00 B	
0.047							1-131-400-00 B	
0.068					<b>→</b>		1-131-401-00 (B)	
0.1						→	1-131-402-00 B	
0.15					<b>→</b> .	→	1-131-403-00 B	
0.22					<b>→</b>	<b>→</b>	1-131-404-00 B	
0.33					<b>→</b>	1-131-409-00 B	1-131-405-00 B	
0.47	-	-	-	_	1-131-412-00 B	<b>→</b>	1-131-406-00 B	
0.68	_	-	-	1-131-415-00 B	<b>→</b> 1	1-131-410-00 B	1-131-407-00 B	
1.0	_ '		1-131-418-00 B	-	1-131-413-00 B	→	1-131-408-00 B	
1.5	_	1-131-421-00 B	-	1-131-416-00 B	→	1-131-411-00 B	1-131-348-00 B	
2.2	1-131-424-00 B		1-131-419-00 B	-	1-131-414-00 B	1-131-355-00 B	1-131-349-00 B	
3,3		1-131-422-00 B	_	1-131-417-00 B	1-131-362-00 B	1-131-356-00 B	1-131-350-00 B	
4.7	1-131-425-00 B		1-131-420-00 B	1-131-369-00 B	1-131-363-00 B	1-131-357-00 B	1-131-351-00 ©	
6.8	-	1-131-423-00 B	1-131-37.6-00 B	1-131-370-00 B	1-131-364-00 B	1-131-358-00 ©	1-131-352-00 ©	
10		1-131-383-00 B	1-131-377-00 B	1-131-371-00 B	1-131-365-00 ©	1-131-359-00 ©	1-131-353-00 D	
15		1-131-384-00 B	1-131-378-00 B	1-131-372-00 B	1-131-366-00 ©	1-131-360-00 D	~	
22		1-131-385-00 B	1-131-379-00 ©	1-131-373-00 ©	1-131-367-00 D		-	
33		1-131-386-00 ©	1-131-380-00 ©	1-131-374-00 D				
47		1-131-387-00 🔘	1-131-381-00 D	-				
68		1-131-388-00 ©		_				
100	1-131-395-00 D			_				





## STEREO CASSETTE DECK

# TC-K81

# **SUPPLEMENT**

File this supplement with the service manual.

Add the record head azimuth adjustment as shown page 2.

US Model Canadian Model AEP Model UK Model E Model

> No. 1 September, 1980

#### Correction

- Page 13 -

Incorrect	Correct			
Record/playback Head Azimuth Adjustment	Playback Head Azimuth Adjustment			



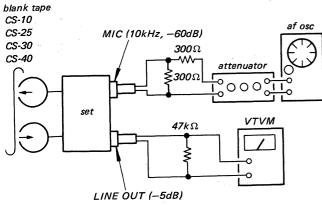
#### Record Head Azimuth Adjustment

Setting:

MONITOR switch: TAPE

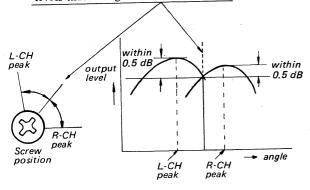
Procedure:

1. Mode: record

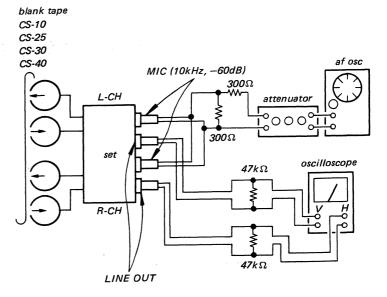


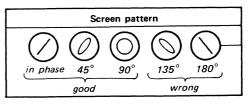
Turn the adjustment screw for the maximum output levels. If these levels do not match, turn

the adjustment screw where both of output levels match together within 0.5 dB.



3. Phase Check Mode: record





#### Adjustment Location:

